

OWNER'S MANUAL

MAGNAVOX
SMART. VERY SMART.

MDV456/17
DVD PLAYER



THANK YOU FOR CHOOSING MAGNAVOX.

NEED HELP FAST?

READ YOUR *QUICK-USE GUIDE* AND/OR *OWNER'S MANUAL* FIRST FOR
QUICK TIPS THAT MAKE USING YOUR MAGNAVOX PRODUCT MORE ENJOYABLE.
IF YOU HAVE READ YOUR INSTRUCTIONS AND STILL NEED ASSISTANCE,
YOU MAY ACCESS OUR ONLINE HELP AT **WWW.MAGNAVOX.COM**
OR CALL **1-800-705-2000** WHILE WITH YOUR PRODUCT.



Return your Product Registration Card today to get the very most from your purchase.

Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits of Product Ownership

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

MAGNAVOX

***Congratulations on your purchase,
and welcome to the "family!"***

Dear MAGNAVOX product owner:

Thank you for your confidence in MAGNAVOX. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a MAGNAVOX product.

P.S. To get the most from your MAGNAVOX purchase, be sure to complete and return your Product Registration Card at once.

Know these safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

MAGNAVOX

Visit our World Wide Web Site at <http://www.magnavox.com>

Safety Information 3

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

- Do not stand the unit up vertically. Install the unit in a horizontal and stable position.
- Be sure to remove the disc and unplug the AC power cord from the output before carrying the unit.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.

Special Information for Canadian Users

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio/TV Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and the receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

Copyright Protection

Unauthorized copying, broadcasting, public performance and lending of Discs are prohibited.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Use

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525p and 625p progressive scan output. It is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set's compatibility with this 525p and 625p DVD player, please contact our customer service center.

Declaration of Conformity

Model Number: MDV456/17
Trade Name: Magnavox
Responsible Party: Philips Consumer Electronics North America
P.O. Box 671539
Marietta, GA 30006-0026
1-800-705-2000

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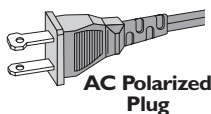
4 Safety Information (cont'd)

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.


6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug.



A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.

12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Battery usage **CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:

- Install **all** batteries correctly, **+** and **-** as marked on the unit.
- Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).
- Remove batteries when the unit is not used for a long time.

EL 6475-E004: 02/8

WARNING

To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

Class II equipment symbol



This symbol indicates that the unit has a double insulation system

Table of Contents 5

General Information

Safety Information	3-4
Table of Contents	5
Introduction	6
Playable Discs	7

Getting Started

Remote Control Setup	8
Hookups	9-15
Playing a Disc	16
Remote Control Buttons	17-18
Front Panel	19
Rear Panel	20

Disc Playback Features

Menus, Playback Control (PBC) Function	21
Paused and Step-by-Step Playback, Resume On	22
Fast Forward/Reverse Search	23
Slow Motion, Zoom	24
Track Playback	25
Title/Chapter Playback, Time Playback	26
Repeat Playback, A-B Repeat	27
Program Playback	28
Random Playback	29
MP3/JPEG Playback	30-31
Audio Language, Stereo Sound	32
Markers	33
Subtitles, Camera Angles	34
On-Screen Displays	35-36

DVD Player Setup and Features

Black Level, Virtual Surround	37
Language	38-39
Display	40-41
Progressive Scan	42
Audio	43
Parental Levels	44
Parental Password	45
Others	46-47
Initializing	48

Information You May Need

Care and Maintenance, Glossary	49
Helpful Hints	50
Specifications	51
Limited Warranty	54
Index	56

6 Introduction

Welcome!

Your new Digital Video Disc Player provides improved picture quality, clear sound, and endless playback features available on Digital Video Discs (DVDs). Add options to your DVD viewing - watch a director's cut of a movie, listen to the producer's comments, or play your favorite scene over and over again. The possibilities are limited only by your choices and the materials available on the DVD.

You also can listen to Audio Compact Discs and MP3 Files on this Player, or view Video CD and JPEG images.

To get the most enjoyment from the Player, read this owner's manual carefully. It describes how to access the features listed below.

Features

- Audio Language choices *
- Camera Angles *
- DVD Menus in a desired language *
- Markers
- MP3 Playback
- JPEG Playback
- Dual Playback
- Parental control*
- Paused/Fast/Slow/Step-by-Step Playback
- Program Playback
- Progressive Scan
- Random Playback
- Repeat, A-B Repeat
- Resume On
- Specific Time/Title/Chapter/Track Playback
- Subtitles *
- Zoom

* If available on the Disc

Disc Menus...

Some explanations in this manual describe the DVD Disc Menus. These menus are set by the movie producers and will vary among Discs. Not all Discs have menus. However, if the Disc has a menu, you can access it by pressing the MENU button on the remote control.

Details are on page 21.

DVD Player Setup Menus...

Some instructions explain how to use the Player's Setup menu to set features of the DVD Player or the Disc. Access the Setup menu by pressing SETUP on the remote when Disc playback is stopped. Even if a feature is set in the Player's menu, it may not be available if the current Disc does not include that feature.

Available Disc Features...



All the features described in this manual may not be available on every Disc. If the feature is not available on the Disc, you cannot use the Player to make the feature available. An "X" will appear in the top right corner of the TV screen if you try to access a feature that is not available on the current Disc or not available at the current time. For example, some features are available only during Disc playback, while others are available only if playback is stopped. Try stopping or starting playback, then try the feature again.

Playable Discs 7

Playable Discs

This DVD Player will play Digital Video Discs (DVDs), Audio Compact Discs (CDs), finalized DVD Recordables and DVD Rewritables (DVD+R and DVD+RW), MP3 or JPEG Files on finalized CD Recordables or CD Rewritables (CD-R or CD-RW), and Video Compact Discs (VCDs).

To play a DVD on this Player, make sure the Disc meets the requirements for Region Codes and Color Systems as described below.

Discs that have the following logos will play on this DVD Player.

- A disc may not play properly if the Disc's recorded area is less than 55mm across.
- Do not glue paper or put stickers on to the Disc. These may damage the Disc, and this player may not read it correctly.



DVD



Audio
CD



CD-R
CD-RW



MP3
Files



Video
CD



DVD+R



DVD+RW

DVD is a trademark of DVD Format/Logo Licensing Corporation.

ABOUT THE PBC FUNCTION OF VIDEO CD

This unit can play Video CD 1.1 (without PBC) and 2.0 (with PBC).

With version 2.0 (with PBC), you can use interactive menu (e.g., playlists) on the TV screen.

When playing a Video CD with PBC, some operations cannot be performed unless the PBC function is cancelled temporarily. See page 21 for more details.

Region Codes

DVDs must be labeled for ALL regions or for Region 1 in order to play on this DVD Player. You cannot play DVDs that are labeled for other regions.

Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you cannot play the DVD in this Player.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.

A Disc encoded in a specific region format can only play on DVD Players with the same region code. For example, if a Disc is labeled for Region 2, you cannot play the DVD on this Player.

Color Systems

Different color systems are available throughout the world. The most common color systems are NTSC, which is used primarily in the United States and North America, PAL, and SECAM.

This DVD Player will play both NTSC and PAL DVDs. You cannot play DVDs recorded in other formats. The color system of the DVD may be listed on the DVD or on the Disc case. Your TV must have the NTSC and/or PAL color system as well.

Unacceptable Discs

If you insert an unacceptable type of disc, a Disc Error message may appear on the TV screen. The following Discs will not play on this DVD Player.

- CD-ROM
- DVD-RAM
- DVD-ROM
- Compact Disc-Interactive (CD-I)
- Video Single Disc (VSD)
- DVD-Audio

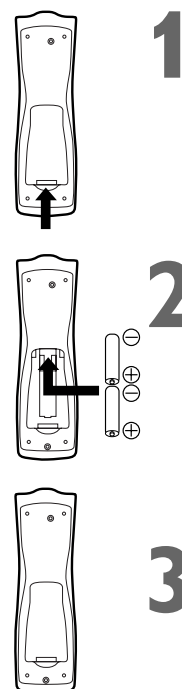
On the following disc, the sound may not be heard.

- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.

8 Remote Control Setup

Putting Batteries in the Remote Control

- 1** Remove the battery compartment lid on the bottom of the remote control by pressing in the tab and lifting off the lid.
- 2** Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated.
- 3** Replace the battery compartment lid.



Using the Remote Control

Point the remote control at the DVD Player's remote sensor (see page 19) when using the remote to operate the Player. Aim the remote toward the Player, not your TV. Do not put objects between the remote and the Player.

Recycling Guidelines/Battery Safety

- Your new product and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries, and packaging whenever you replace existing equipment.
- Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install ALL batteries correctly, with the + and – markings on the battery aligned as indicated on the unit;
 - Do not mix batteries, for example, old with new or carbon with alkaline; and
 - Remove batteries when the unit will not be used for a long time.

Hookups 9

Depending on your TV and other equipment, there are various ways to connect the DVD Player. Use only one of the connections described in the following pages.

Before you begin...

- Refer to the manuals of your TV or Stereo. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels so you can see and hear the Player on the TV, Stereo, etc.
- Disconnect all equipment from the power outlets. Connect the equipment to the power outlets only after you have finished hooking up everything. Never make or change connections with equipment connected to the power outlet.

Determining the best possible connection...

Your hookup will be determined primarily by your existing equipment, especially your TV. These guidelines describe which options have the best picture and sound quality.

- ★★★★ Component Video provides the best picture quality. *Details are on page 13.*
Progressive Scan provides less flickering and higher image resolution than traditional (480i or interlace) TV signals. If your TV has Progressive Scan (480p or progressive), connect the TV to the Player's COMPONENT VIDEO OUT (Y CR/PR CB/PB) jacks.
Set PROGRESSIVE to ON in the DVD Player's DISPLAY menu. *Details are on pages 42.*
"PSCAN" will appear on the Player's display panel. (When PROGRESSIVE is ON, no video is available through the Player's VIDEO OUT and S-VIDEO OUT jacks.) Set your TV to Progressive Scan also.
If your TV does not have Progressive Scan but has Component Video In jacks, connect them to the Player's COMPONENT VIDEO OUT jacks (Y CR/PR CB/PB). Set PROGRESSIVE to OFF by pressing and holding PLAY ► on the front of the Player for more than 5 seconds. *Details are on pages 42.*
- ★★★★ S-Video provides excellent picture quality. *Details are on page 12.*
- ★★★ The yellow Video jack provides good picture quality. *Details are on page 11.*
- ★★ **If your TV has only an RF-style jack (labeled Antenna In or 75 ohm), you need an RF modulator to connect the Player to the TV.** Contact Magnavox for details or availability. A DVD picture still exceeds the quality of videotapes and other analog recordings. *Details are on page 10.*
- ★★★★ Digital audio provides the clearest sound. Connect the Player's COAXIAL DIGITAL AUDIO OUT jack to your Stereo for the best sound. *Details are on page 15.*
- ★★★ If digital connections are not possible, connect the Player's red and white AUDIO OUT jacks to the Audio In jacks of your Stereo, TV, or RF modulator. *Details are on pages 10-14.*

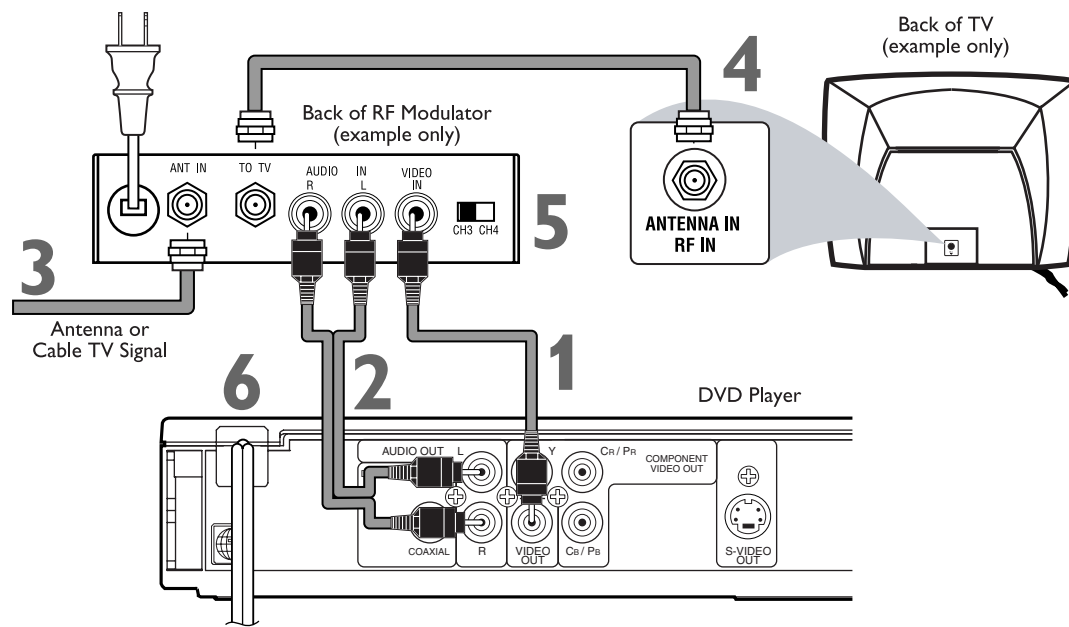
Remember...

- Connect the Player directly to the TV. For example, do not connect the Player to a VCR, then connect the VCR to a TV. This type of connection may distort the picture and sound. Also, your VCR might have the copy protection system, which could further distort the DVD image.
- Set the TV to the correct Video In channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. These channels often are near channel zero. Or, your TV's remote control may have a button or switch that selects different Video In channels. See your TV owner's manual for details. Or, go to your lowest TV channel (01 or 02) and change channels downward until you see the DVD logo or DVD playback on the TV screen. (The Player must be on.)
Set the TV to channel 3 or 4 only if you are using an RF modulator.
- Set the Stereo to the correct channel or "source" mode.
- Do not connect the Player's AUDIO OUT jacks to a Stereo's PHONO IN jack.
- Depending on your connection, you may need to purchase additional cables.
- You only need one audio connection and one video connection.
- If you do not connect the Player to a Dolby Digital-compatible Stereo, set DOLBY DIGITAL to PCM. *Details are on pages 15 and 43.* Playing a Disc when the settings are wrong could distort the sound or damage the speakers.


Once you determine the best option, find your choice on pages 10-15. Follow the specific steps for the hookup you chose.

10 Hookups (cont'd)

Connecting to a TV Only **TV has only a single ANTENNA IN or RF-IN jack**

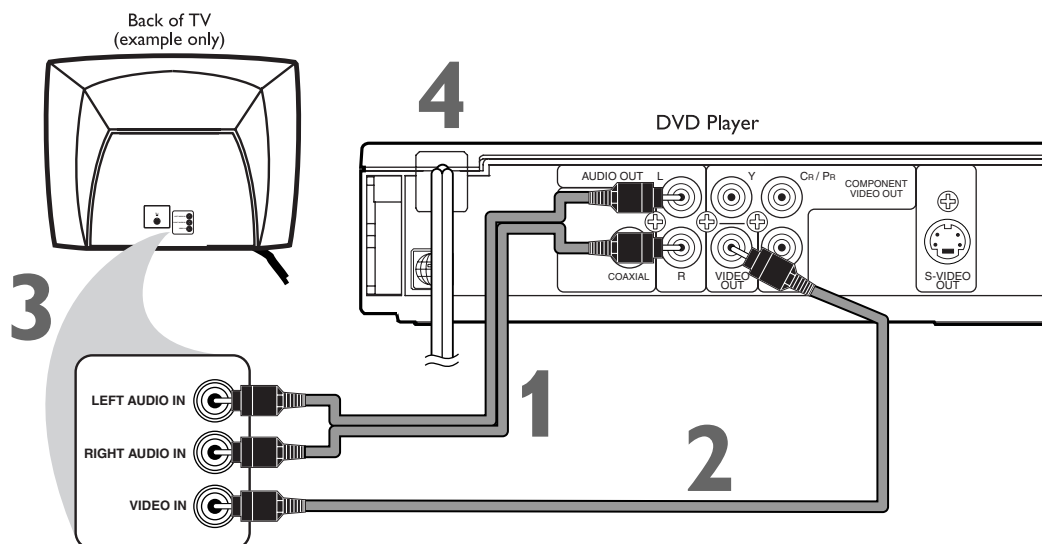


Before you begin, make sure you have an RF modulator and extra RF coaxial cables. These are not supplied with the Player, but are available from Magnavox or most consumer electronics retailers.

- 1** Connect the supplied video cable (yellow) to the Player's yellow **VIDEO OUT** jack and to the **VIDEO IN** jack on the RF modulator. The VIDEO IN jack on the RF modulator is usually yellow and might be labeled VIDEO, CVBS, COMPOSITE, or BASEBAND.
- 2** Connect the supplied audio cable (red and white) to the Player's red and white **AUDIO OUT** (left and right) jacks. Connect the other ends of the audio cable to the **AUDIO IN** jacks on the RF modulator. Audio jacks on the RF modulator usually are red (right) and white (left). Match the cable colors to the jack colors.
- 3** You probably already have an Antenna or Cable TV signal connected to the ANTENNA IN jack on your TV. **Disconnect it now from the TV. Reconnect the Antenna or Cable TV signal to the ANTENNA IN jack on your RF modulator.**
- 4** Connect an RF coaxial cable (not supplied) to the **RF OUT, ANTENNA OUT, or TO TV jack** on the RF modulator. The RF OUT jack may be labeled differently among different brands. Refer to the instructions provided with your RF modulator. **Connect the other end of the same RF coaxial cable to the ANTENNA IN or RF IN jack on your Television.**
- 5** Your RF Modulator should have a Channel 3/4 switch. The setting of this switch determines the TV channel on which you will watch materials playing on the DVD Player. **Set the RF Modulator's Channel 3/4 switch to either 3 or 4, whichever TV channel is least used in your area.** If your RF modulator has a Modulator/Antenna switch, set it accordingly. Refer to the instructions that came with the RF Modulator. **Turn on your TV and choose channel 3 or 4.** Choose the same channel to which you set the RF Modulator's Channel 3/4 switch.
- 6** Connect the Player's power cord to a power outlet. Press **STANDBY-ON**  to turn on the Player. If no Disc is in the Player, you should see the DVD logo on the TV screen. Make sure PROGRESSIVE is OFF and "P.SCAN" does not appear on the Player's display panel. Details are on pages 9 and 42.

Hookups (cont'd) 11

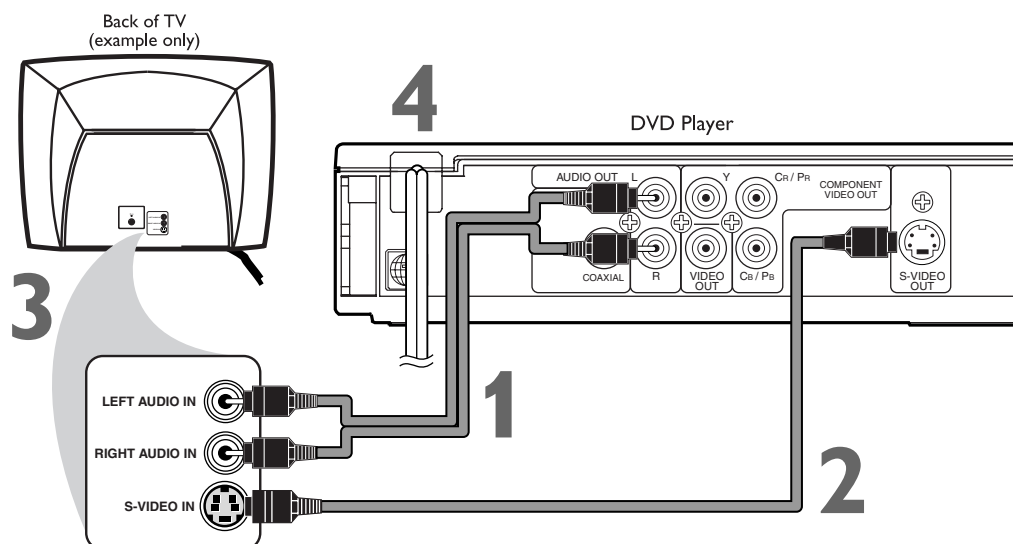
Connecting the DVD Player to a TV only TV has AUDIO (red and white) and VIDEO (yellow) IN jacks



- 1** Connect the supplied red and white audio cable to the red and white **AUDIO OUT** jacks on the **DVD Player** and to the red and white **AUDIO IN** jacks on the **TV**. Match the cable colors to the jack colors. The right jack is red; the left jack is white.
- 2** Connect the supplied yellow video cable to the **VIDEO OUT** jack on the **DVD Player** and to the **VIDEO IN** jack on the **TV**.
- 3** Connect the **TV's** power cord to a power outlet.
Turn on the TV and set it to the Audio/Video In channel.
This channel may be labeled A/V or Audio/Video, Aux or Auxiliary, EXT or External, etc. This channel is usually near channel zero, or your TV's remote control may have a button or switch that lets you select the Video In channel. Or, go to your lowest TV channel (01 or 02) and change channels downward until you find the Video In channel. If you cannot find the Video In channel, check your TV owner's manual.
- 4** Connect the **DVD Player's** power cord to a power outlet.
Press the **STANDBY-ON button to turn on the DVD Player.**
You should see the DVD logo on the TV screen. If you do not, check your connections and make sure the TV is set to the correct Video In channel. Make sure **PROGRESSIVE** is **OFF** and "**PSCAN**" does not appear on the Player's display panel. Details are on pages 9 and 42.

12 Hookups (cont'd)

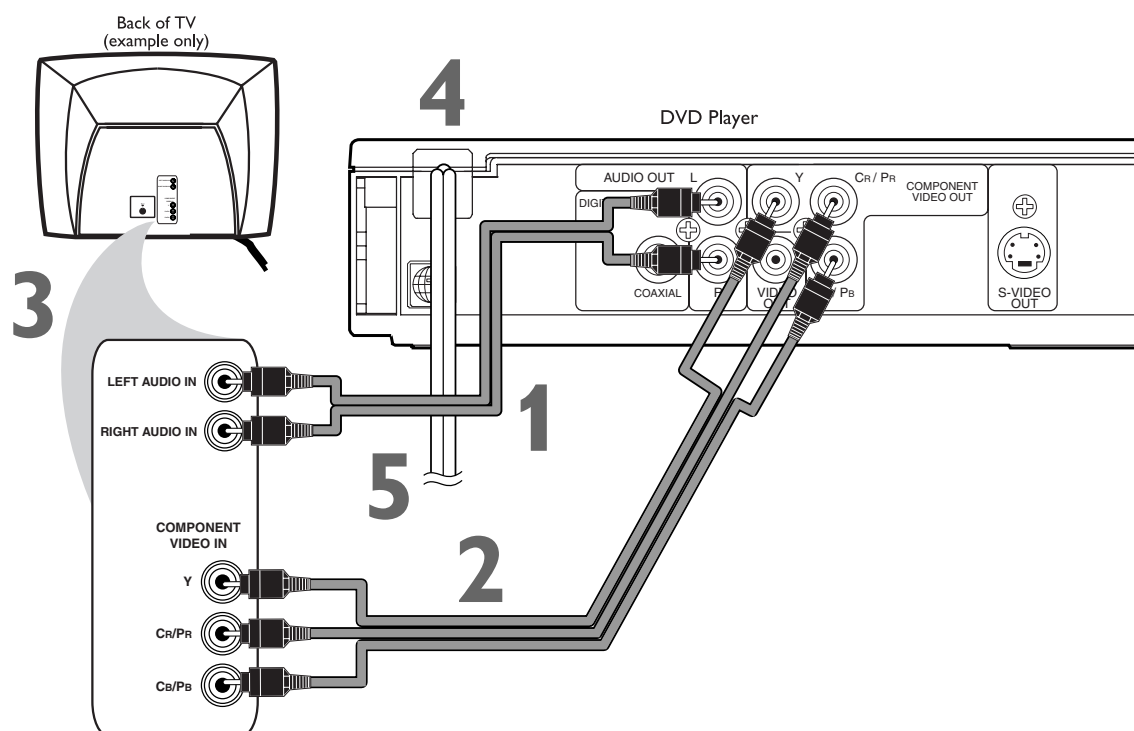
Connecting the DVD Player to a TV only TV has AUDIO (red and white) and S-VIDEO IN jacks




- 1** Connect the supplied red and white audio cable to the red and white **AUDIO OUT** jacks on the DVD Player and to the red and white **AUDIO IN** jacks on the TV. Match the cable colors to the jack colors. The right jack is red; the left jack is white.
- 2** Connect an S-Video cable (not supplied) to the **S-VIDEO OUT** jack on the DVD Player and to the **S-VIDEO IN** jack on the TV.
- 3** Connect the TV's power cord to a power outlet.
Turn on the TV and set it to the S-VIDEO IN channel.
This channel may be near channel zero, or your TV's remote control may have a button or switch that lets you select the S-Video In channel. Or, go to your lowest TV channel (01 or 02) and change channels downward until you find the S-Video In channel. If you cannot find the S-Video In channel, check your TV owner's manual.
- 4** Connect the DVD Player's power cord to a power outlet.
Press the **STANDBY-ON button to turn on the DVD Player.**
You should see the DVD logo on the TV screen. If you do not, check your connections and make sure the TV is on the correct S-Video In channel. Make sure **PROGRESSIVE** is OFF and "P.SCAN" does not appear on the Player's display panel. Details are on pages 9 and 42.

Hookups (cont'd) 13


Connecting to a TV only TV has COMPONENT VIDEO IN Jacks



- 1** Connect the supplied red and white audio cable to the Player's red and white **AUDIO OUT** jacks and to the TV's red and white **AUDIO IN** jacks. Match the cable colors to the jack colors. The right jack is red; the left jack is white.
- 2** Connect component video cables (not supplied) to the Player's **COMPONENT VIDEO OUT** jacks (Y Cr/Pr Cb/Pb) and to the TV's **COMPONENT VIDEO IN** jacks. The jacks on the Player are green, red, and blue.
- 3** Plug in the TV's power cord. Turn on the TV and set it to the **Component Video In** channel, which may be near channel zero. Go to your lowest TV channel (01 or 02) and change channels downward until you find the Component Video In channel. Or, your TV's remote control may have a button or switch that lets you select the Component Video In channel. If you cannot find it, check your TV owner's manual.
- 4** Connect the DVD Player's power cord to a power outlet. Press **STANDBY-ON**  to turn on the Player. You should see the DVD logo on the TV screen. If you do not, check your connections and make sure the TV is on the correct Component Video In channel.

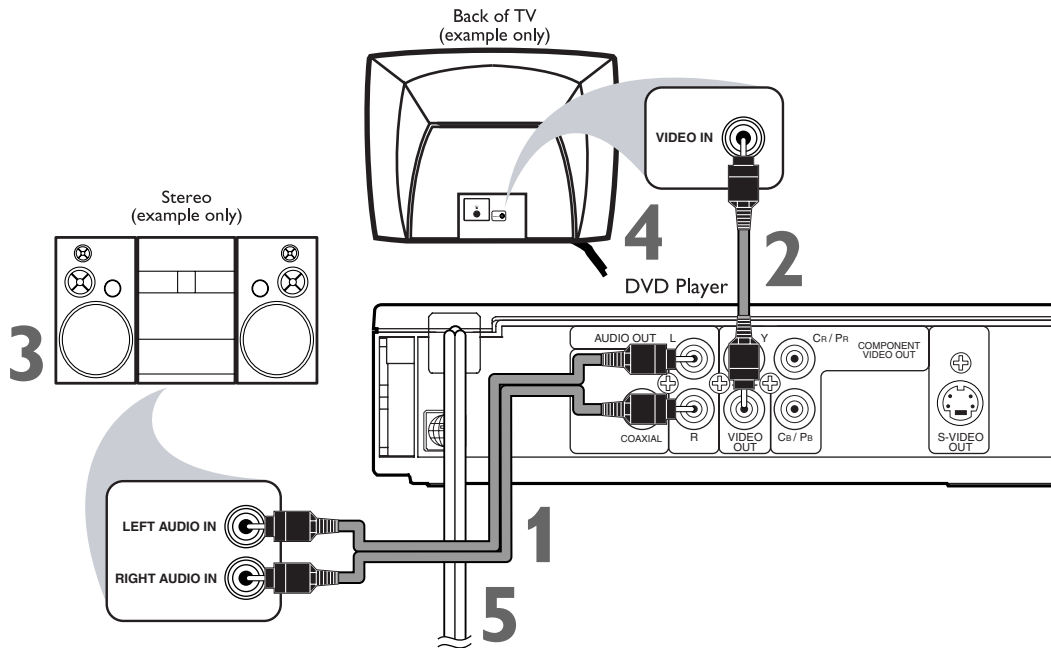
If your TV is compatible with Progressive Scan


Set **PROGRESSIVE** to **ON** in the Player's **DISPLAY** menu. Details are on pages 9 and 42. "PSCAN" will appear on the Player's display panel.

If your TV does not have Progressive Scan, make sure **PROGRESSIVE** is **OFF** and "PSCAN" does not appear on the Player's display panel. You can set **PROGRESSIVE** to **OFF** either in the Display menu or by pressing and holding **PLAY**  on the front of the Player for more than 5 seconds. Details are on pages 9 and 42.

14 Hookups (cont'd)

Connecting to a TV and a Stereo Stereo has red/white AUDIO IN jacks



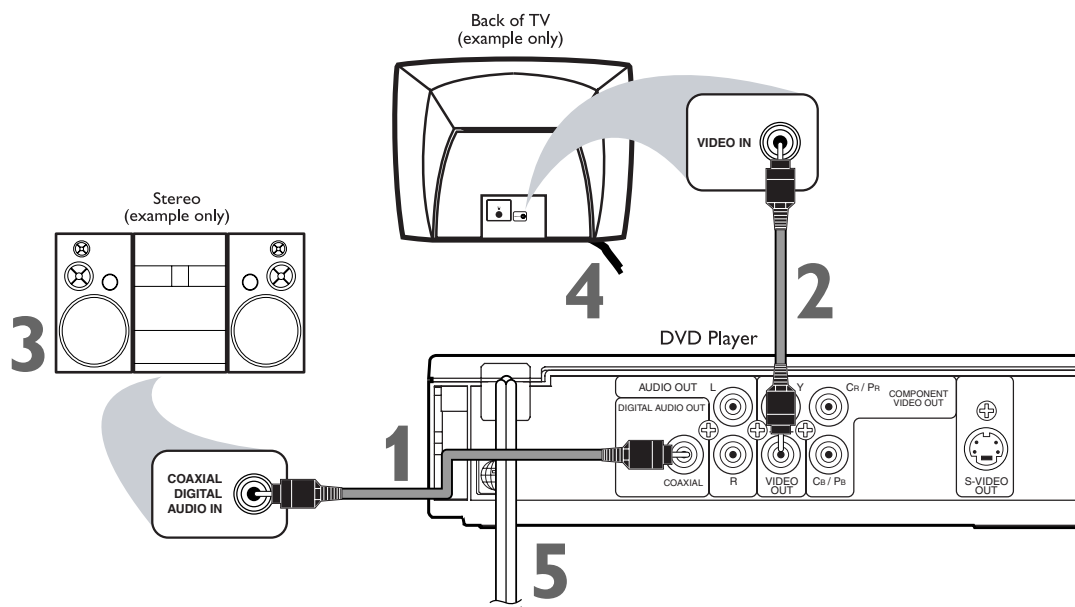
- 1** Connect the supplied red and white audio cable to the Player's red and white **AUDIO OUT** jacks and to the Stereo's red and white **AUDIO IN** jacks. Match the cable colors to the jack colors. The right jack is red; the left jack is white.
- 2** Connect the supplied yellow video cable to the Player's yellow **VIDEO OUT** jack and to the TV's **VIDEO IN** jack.
- 3** Plug in the Stereo's power cord. Turn on the Stereo and select the **Auxiliary IN** station or sound source. See your Stereo owner's manual for details.
- 4** Plug in the TV's power cord. Turn on the TV and set it to the correct **Video In** channel. This channel may be labeled A/V or Audio/Video, Aux or Auxiliary, EXT or External, etc. This channel is usually near channel zero, or your TV's remote control may have a button or switch that lets you select the Video In channel. Or, go to your lowest TV channel (01 or 02) and change channels downward until you find the Video In channel. If you cannot find the Video In channel, check your TV owner's manual.
- 5** Connect the Player's power cord to a power outlet. Press **STANDBY-ON**  to turn on the Player. You should see the DVD logo on the TV screen. If not, check your connections and set the TV to the correct Video In channel. Make sure **PROGRESSIVE** is OFF and "**PSCAN**" does not appear on the Player's display panel. Details are on pages 9 and 42.

Helpful Hint

- You may use S-Video or Component Video instead. See pages 12-13 for these optional video connections. Remember, you only need one video connection between the TV and the DVD Player.

Hookups (cont'd) 15

Connecting to a TV and a Stereo with a COAXIAL DIGITAL AUDIO IN jack




1 Connect a coaxial digital audio cable (not supplied) to the Player's black **COAXIAL DIGITAL AUDIO OUT** jack and to the Stereo's **COAXIAL DIGITAL AUDIO IN** jack.

2 Connect the supplied yellow video cable to the Player's yellow **VIDEO OUT** jack and to the TV's **VIDEO IN** jack.

3 Plug in the Stereo's power cord. Turn on the Stereo and select the **Auxiliary IN** station or source mode. See your Stereo owner's manual for details.

4 Plug in the TV's power cord. Turn on the TV and set it to the correct **Video In** channel.

This channel may be labeled A/V or Audio/Video, Aux or Auxiliary, EXT or External, etc. This channel is usually near channel zero, or your TV's remote control may have a button or switch that lets you select the Video In channel. Or, go to your lowest TV channel (01 or 02) and change channels downward until you find the Video In channel. If you cannot find the Video In channel, check your TV manual.

5 Plug in the Player's power cord. Press **STANDBY-ON**  to turn on the Player. You should see the DVD logo on the TV screen. If you do not, check your connections and make sure the TV is on the correct Video In channel. Make sure **PROGRESSIVE** is OFF and "PSCAN" does not appear on the Player's display panel. Details are on pages 9 and 42.

Helpful Hints

- Some Discs are recorded in Dolby Digital 5.1 channel Surround format. These Discs will sound best if you connect the DVD Player to a Stereo that has Dolby Digital.
- Set **DOLBY DIGITAL** to **BITSTREAM** if you connect the Player to a Dolby Digital-compatible Stereo. Details are on page 43.
- Select **Dolby Digital 5.1** channel Surround sound if available in the DVD's menu.
- You may use S-Video or Component Video instead. See pages 12-13 for these optional video connections. Remember, you only need one video connection between the TV and the DVD Player.

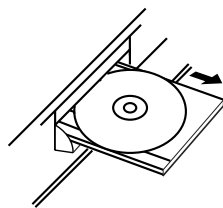
16 Playing a Disc




Before you begin, turn on the power of the TV, stereo, and any other equipment connected to the DVD Player. Make sure the TV and the stereo (if applicable) are set to the correct channel. *Details are on pages 8-15.*

1 Press STANDBY-ON  to turn on the Player. P-on will appear briefly on the Player's display panel.


2 Press OPEN/CLOSE  on the front of the DVD Player to open the Disc tray.

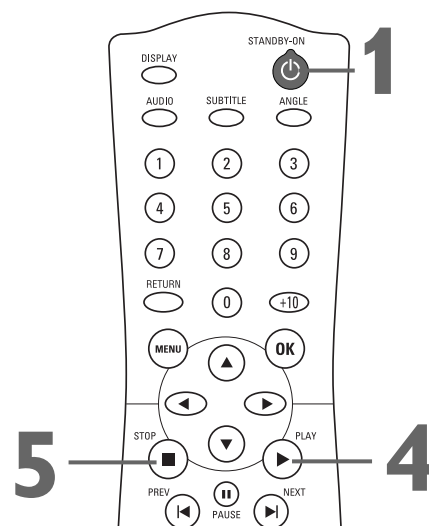
3 Place a Disc into the tray. If the DVD is recorded on only one side, place the Disc in the tray with the label facing up and the shiny side facing down. Some DVDs are recorded on both sides. Make sure the label of the side you want to play is facing up.






4 Press PLAY  to close the tray. The tray will close and playback will begin. If playback does not start automatically, press PLAY  again. If a DVD menu appears instead, see page 21. To play MP3 or JPEG Files, see page 30. You also can close the tray by pressing OPEN/CLOSE .

5 Press STOP  to stop playback.

2 Press OPEN/CLOSE .

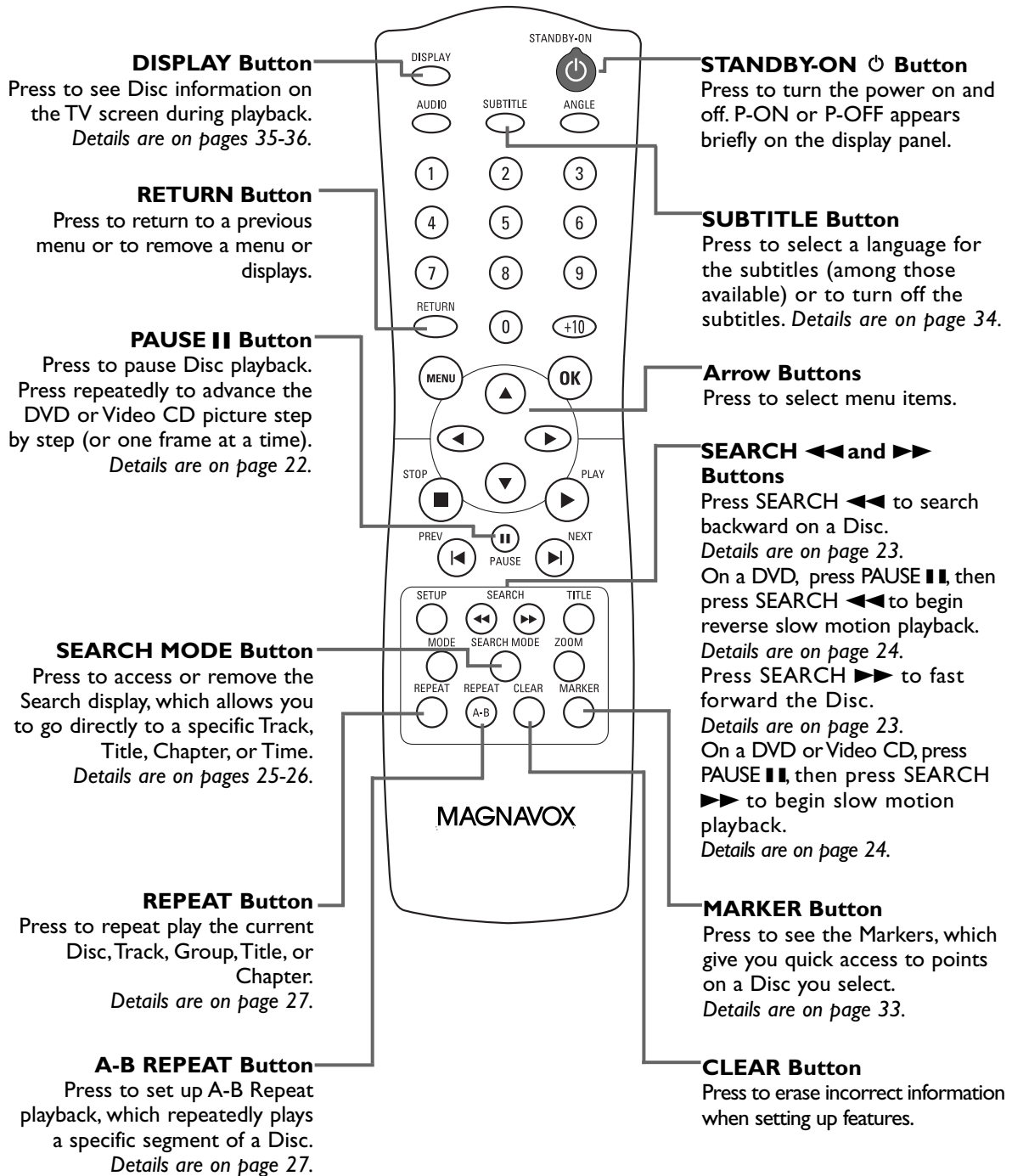


Helpful Hints

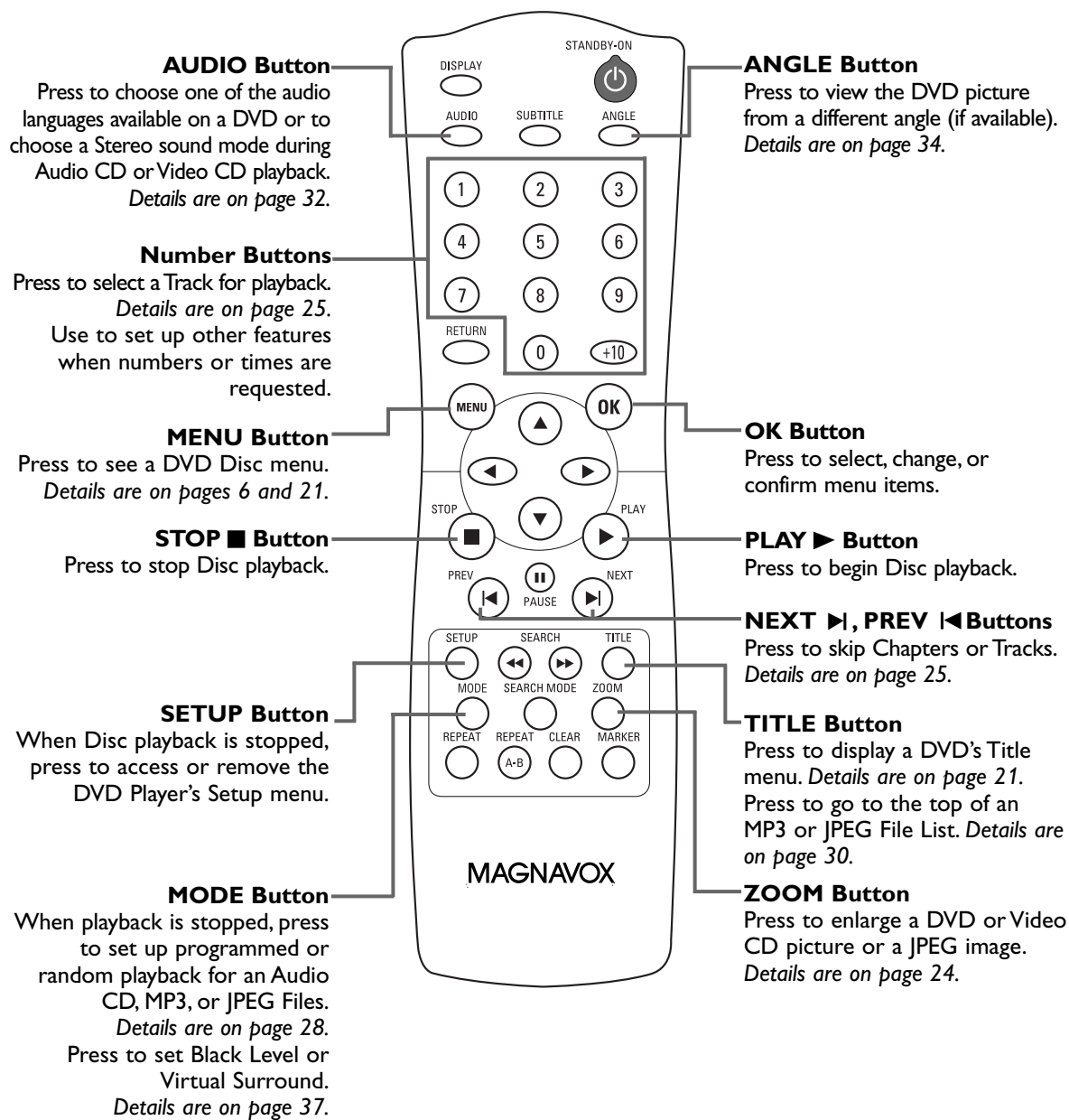
- An "X" may appear in the top right corner of the TV screen when you try a feature. This means either the feature you tried is not available on the Disc, or the Player cannot access the feature at this time. This does not indicate a problem with the Player.
- If a Disc is dirty or has scratches, the pictures may appear distorted and playback may stop. In such cases, remove the Disc and turn off the Player. Unplug the power cord, then reconnect it to the power outlet. Clean the Disc, then turn on the Player again and reinsert the Disc for playback.
- If a Disc has multiple layers, the picture may freeze occasionally. This happens when the first layer switches to the second layer. This is not a malfunction.
- If you use PLAY  to close the Disc tray, playback starts automatically. If you use OPEN/CLOSE  to close the Disc tray, you have to press PLAY  to start playback.

Remember, this DVD Player will play only certain Discs. See page 7 for details.

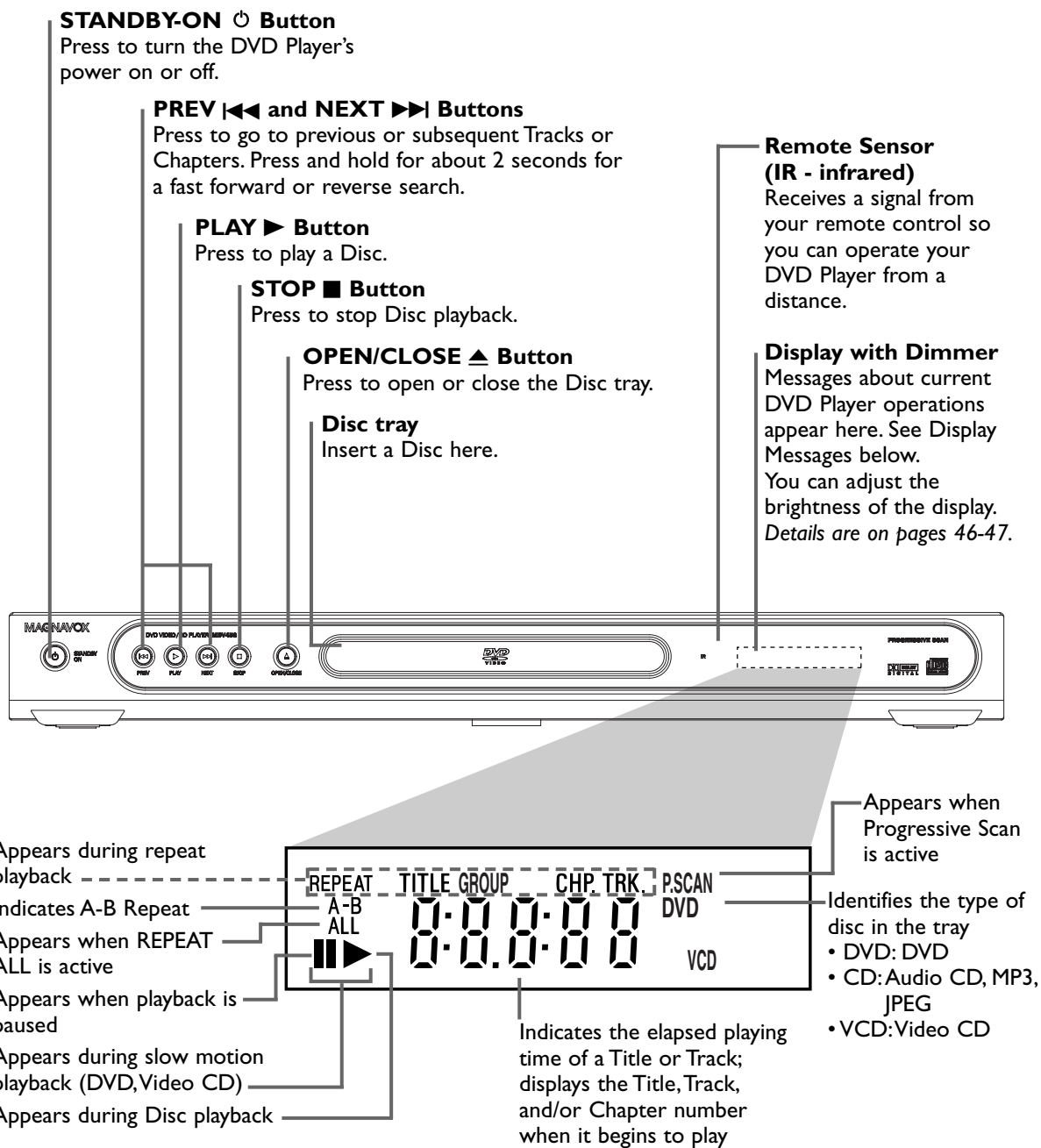
Remote Control Buttons 17



18 Remote Control Buttons (cont'd)



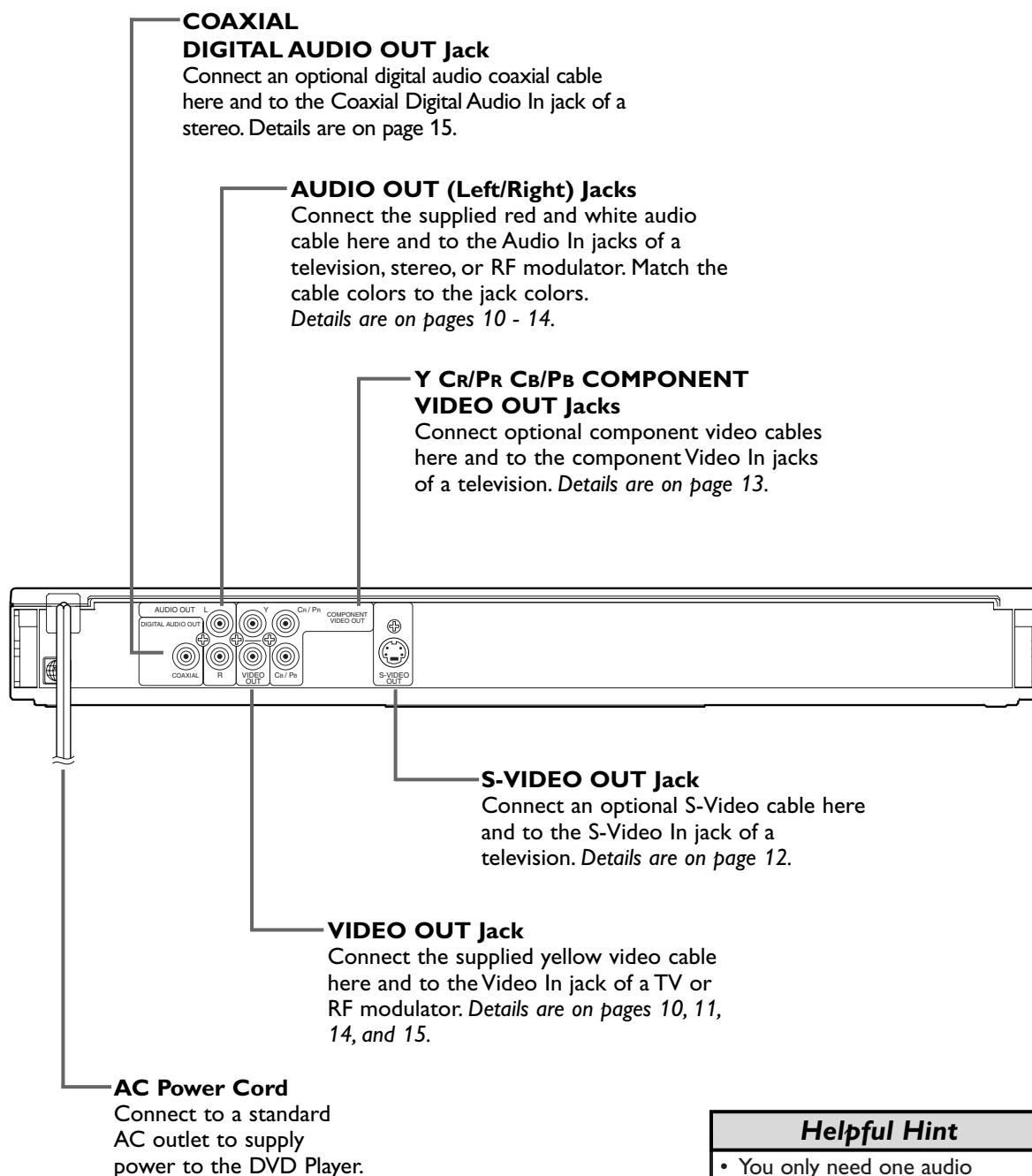
Front Panel 19



Display Messages

P - ON	Power is turning on.	CLOSE	Tray is closing.
- - - -	Appears after the disc tray closes if the tray is empty, if there is an error reading the disc, or if an unacceptable disc is installed.	Load	Disc is loading.
OPEN	Tray is opening or is open.	P - OFF	Power is turning off.
		Pbc	Playback control is active (Video CD).

20 Rear Panel



Helpful Hint

- You only need one audio connection and one video connection, so you will not have a cable connected to every jack. For example, if you are using the S-VIDEO OUT jack, you will not use the yellow VIDEO OUT jack or the Y CR/PR CB/PB COMPONENT VIDEO OUT jacks.

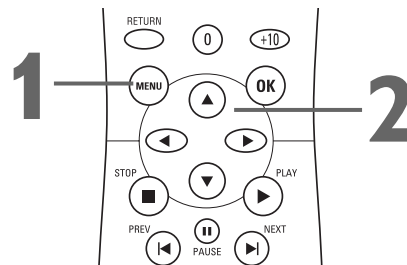
Menus, Playback Control (PBC) Function 21

DVD Disc Menus

Some DVDs contain menus that describe the contents of the Disc or allow you to customize Disc playback. For example, the menu may offer choices for subtitle languages, director's commentary, or soundtrack playback.

To use the DVD menu and select playback features, follow these steps.

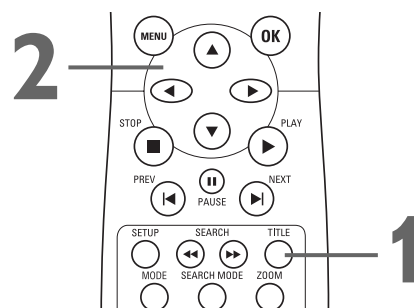
- 1 Press MENU.** The DVD's main menu will appear.
- 2 Press ▲, ▼, ◀, or ▶ to select an item, then press OK.** Continue this process to set up all the features you want or to start playing the DVD.



Title Menu

Some DVDs have a Title Menu, which lists the Titles available on the Disc. Use the Title Menu to play a specific Title.

- 1 Press TITLE.**
The Title Menu will appear.
If a Title menu is not available, the "X" may appear on the TV screen. If the DVD only has a main menu as described above, it may appear when you press TITLE.
- 2 Press ▲, ▼, ◀, or ▶ to select a Title, then press OK.** Playback will begin at the Title you selected.



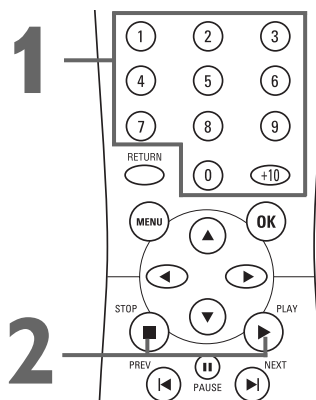
Playback Control (PBC) Function

When playing a Video CD with PBC (Playback Control), you can use interactive menu (e.g., playlists) on the TV screen. Refer to instructions accompanying your Video CD for more details on PBC.

Some operations cannot be performed unless the PBC function is cancelled temporarily.

Cancelling and calling back the PBC function

- 1 While playback is stopped, press the NUMBER Buttons to enter a Track number.**
PBC function is now cancelled and the playback of the Video CD will start.
- 2 To call back the PBC function, press the STOP button twice, then press PLAY ▶.**
The title menu will appear on the TV screen.









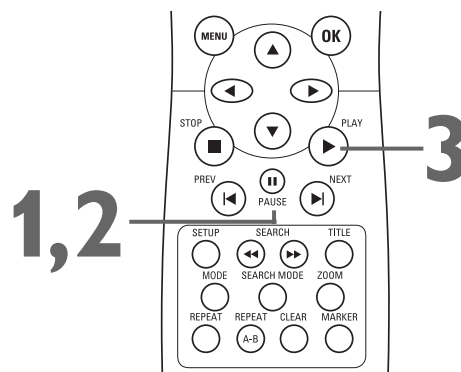
Helpful Hints

- Menus vary among Discs. Refer to the literature accompanying the Disc for details.
- Not all DVDs have Disc or Title menus.
- Some DVDs may refer to Chapters as "scenes." Some DVDs may refer to the Title Menu as the "scene index."
- The TITLE button may not be active with all DVDs.

22 Paused and Step-by-Step Playback, Resume On


Paused and Step-by-Step Playback

- 1** During Disc playback, press **PAUSE** . Playback will pause and the sound will be mute.
 - Pressing **PAUSE**  once during **DUAL PLAYBACK** will pause a **JPEG** playback only. Pressing **PAUSE**  one more time will pause an **MP3** playback.
- 2** When playing a **DVD** or **Video CD**, press **PAUSE**  repeatedly to see the picture advance one frame (or step) at a time. The sound will remain mute. Pressing **PAUSE**  repeatedly during **Audio CD**, **MP3**, or **JPEG** playback will have no effect.
- 3** Press **PLAY**  to resume playback.

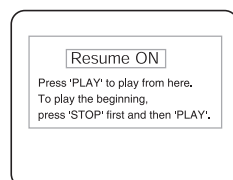


Resume On

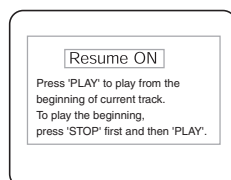
You may choose to resume playback from the point at which it stopped last.





- 1** Press **STOP**  during playback. In a few seconds, the following Resume message will appear on the TV screen.

For **DVD**, **AudioCD** or **VideoCD**:

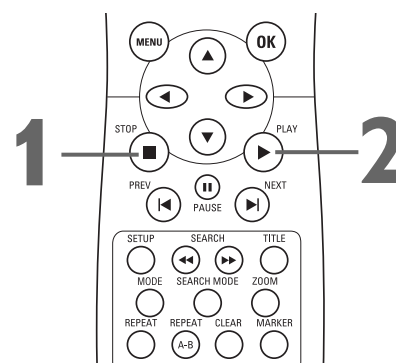


For **MP3** or **JPEG**:



- 2** Press **PLAY** . In a few seconds, playback will resume from the point at which it stopped last. You can resume playing at the same point even if you turn off the DVD Player, then turn it on again later. However, opening the disc tray will cancel the Resume feature. Playback will start at the beginning the next time you insert the Disc. To cancel Resume and start playing the Disc from the beginning, press **STOP**  again while playback is stopped. The Stop symbol () will appear briefly on the TV screen. Press **PLAY**  to start playing the Disc from the beginning. The resume information will be saved even when the power is turned off.

- For **MP3** and **JPEG** Files, playback will resume from the beginning of the current track.
- To resume playback of a **VCD** with **PBC** function, you have to cancel the **PBC** function first. See page 21 on how to cancel the **PBC** function.



Helpful Hint

- Set **STILL MODE** to **FIELD** in the **DISPLAY** menu if paused pictures are blurry. Details are on pages 42-43.

Fast Forward/Reverse Search 23

1 During playback, press **SEARCH** ►► or ◄◄ on the remote control.

- During DVD playback, pressing **SEARCH** ►► or ◄◄ will forward or reverse the picture at approximately 2, 8, 20, 50, or 100 times the normal speed. The speed may vary depending on the Disc.

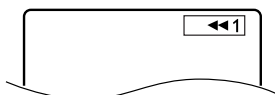
►► 1, ►► 2, ►► 3, ►► 4, or ►► 5 will appear briefly on the TV screen to indicate forward searching. Or, ◄◄ 1, ◄◄ 2, ◄◄ 3, ◄◄ 4, or ◄◄ 5 will indicate reverse searching.

For DVD playback, the sound will be mute during the search.

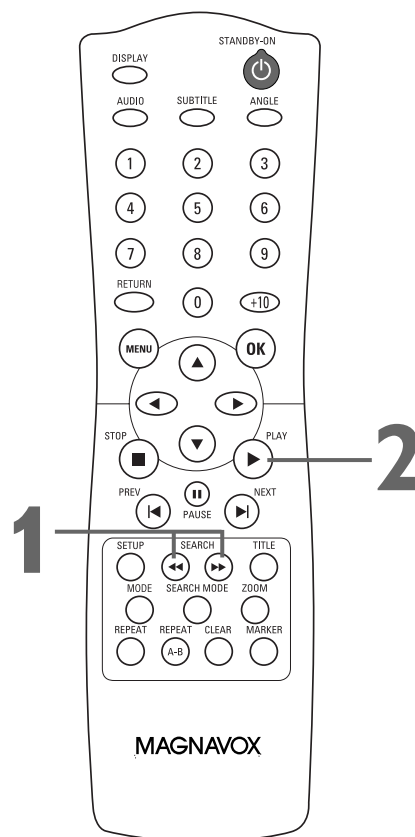
- For Video CDs, Audio CDs or MP3 playback, pressing **SEARCH** ►► or ◄◄ will forward or reverse the picture or sound at approximately 2, 8, or 30 times the normal speed. The speed may vary depending on the Disc.

►► 1, ►► 2, or ►► 3 will appear briefly on the TV screen to indicate forward searching. Or, ◄◄ 1, ◄◄ 2, or ◄◄ 3 will indicate reverse searching.

For MP3 or Audio CD playback, the sound will be intermittent during the search.



Example: Playing a DVD in reverse at twice the normal playing speed.



2 Press **PLAY** ► to return to normal playback.

24 Slow Motion, Zoom

Slow Motion

- 1** Press **PAUSE** during DVD or Video CD playback.
- 2** Press **SEARCH** or . Slow motion playback will begin. Press **SEARCH** or repeatedly during slow motion playback to play the DVD forward or backward at approximately 1/16, 1/8, or 1/2 the normal speed. Backward slow motion is not available on a Video CD.
An 1 (1/16), 2 (1/8), or 3 (1/2) will appear briefly on the TV screen to indicate forward slow motion.
An 1 (1/16), 2 (1/8), or 3 (1/2) will appear to indicate reverse slow motion.



Example: Playing a DVD forward at half the normal speed.

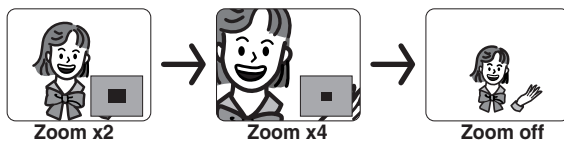
- 3** Press **PLAY** to return to normal playback.

Zoom

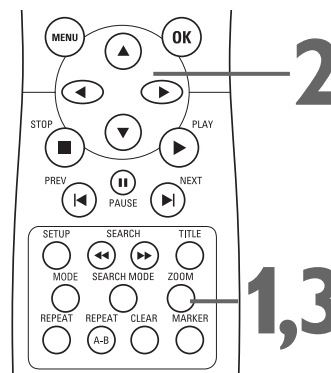
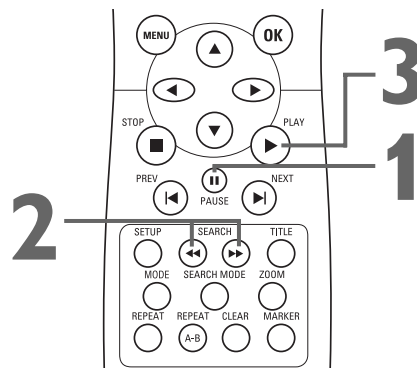
Zooming lets you enlarge the playback image of DVDs, Video CDs, or JPEG CDs, and lets you pan through the enlarged image.

- 1** Press **ZOOM** during playback or when playback is paused. The picture will appear twice as large. Press **ZOOM** again to make the picture four times larger than normal. Either x2 or x4 will appear beside the zoom icon in the upper left corner of the TV screen.
- 2** While the picture is enlarged, press , , , or to move the zoomed image up, down, left, or right.

The gray box with an inner blue box that shows during Zoomed playback is the position guide. To remove it or show it, press **OK**. The position of the blue box inside the gray box indicates the position of the zoomed image within the overall picture.



- 3** To return the picture to normal, press **ZOOM** repeatedly.



Helpful Hints

- Only slow forward is available for Video CDs.
- The sound will be mute during paused or slow motion playback.
- You cannot zoom a Disc menu.
- The x4 zooming is not active with some Discs. Only x2 zooming is available for Video CDs and JPEGs.
- Position guide is not available for JPEG playback.

Track Playback 25

There are three ways to play an Audio CD, MP3, JPEG, or Video CD (without PBC) Track. Use the Number buttons, SEARCH MODE, or PREV ◀ and NEXT ▶.

A

Using the Number Buttons

Press the Number buttons to enter a Track number.

Playback will start at the selected Track.

For single-digit Tracks (1-9), press a single Number button.

For Tracks 10 and above, press the +10 button so the Search display (TR _ _ / 12 - an example of Total Tracks) appears on the TV. Press the Number button of the first digit, then press the Number button of the second digit. For example, to play Track 26, press +10, then Number 2, then Number 6.

If you enter a Track number that is not available on the Disc, playback will not begin (or the current Track will continue to play).

B

Using SEARCH MODE

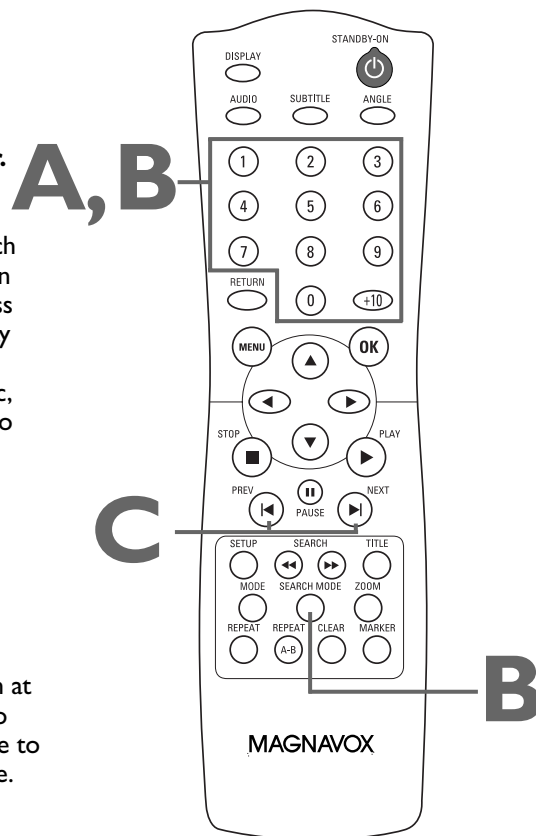
Press SEARCH MODE so the Track Search display (TR) appears. Within 30 seconds, press the Number buttons to select the Track number. Playback will begin at the selected Track. For a single-digit Track (1-9), enter a zero first. For example, to play Track 5, press 0, 5. You do not have to use the +10 button in Search Mode for Tracks 10 and above.

C

Using PREV ◀ and NEXT ▶

During playback, press NEXT ▶ to skip the current Track and move to the next Track. The Track number will appear briefly on the Player's display panel.

During playback, press PREV ◀ to return to the beginning of the current Track or press repeatedly to go to previous Tracks. The Track number will appear briefly on the Player's display panel.



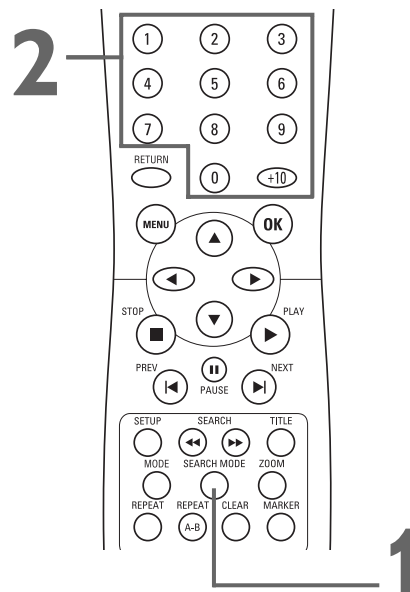
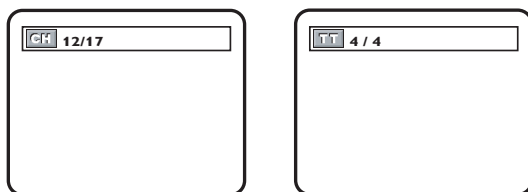
Helpful Hints

- PREV ◀ and NEXT ▶ are not active when playback is stopped.
- You cannot use NEXT ▶ to go from the last Track on the Disc to the first Track.
- Using PREV ◀ or NEXT ▶ will only affect MP3 Files during DUAL PLAYBACK.

26 Title/Chapter Playback, Time Playback

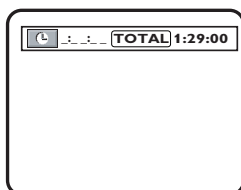
Title/Chapter Playback

- 1** During DVD playback, press **SEARCH MODE** until CH (for Chapter) or TT (for Title) appears on the TV screen. The number of available Titles or Chapters will appear at the right (/4, for example).
- 2** Enter the Title or Chapter number using the **Number buttons**. The selected Title or Chapter will start to play.



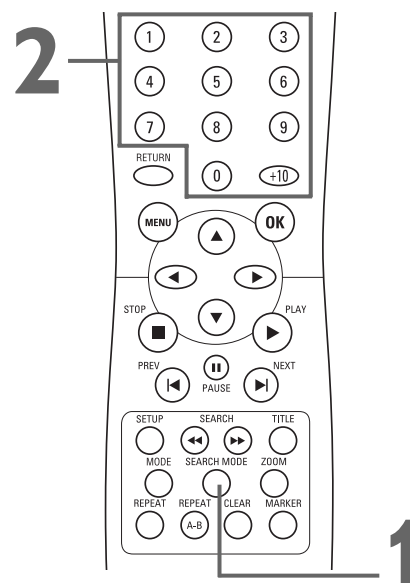
Time Playback

- 1** During DVD, Audio CD, or Video CD (without PBC) playback, press **SEARCH MODE** until the Time Search display appears.



- 2** Within 30 seconds, use the **Number buttons** to enter the elapsed playing time (of the current Track or Title) at which you want playback to begin. Enter the time in hours, minutes, and seconds. Within a few seconds, playback will start at the specified time.

- Example: 1 hour, 23 minutes, and 30 seconds
1 → 2 → 3 → 3 → 0
- Make sure the time you enter is within the total time of the current Title or Track. If it is not, the time space will clear and playback will continue at its current point. The total time available in the current Track or Title will appear to the right of TOTAL in the Time Search display.
- If you make a mistake entering the time, press CLEAR to clear the time area. Enter the correct information.



Helpful Hints

- When playback is stopped, use the Number buttons to select a Title for immediate playback. During playback, use the Number buttons to choose a Chapter for immediate playback.
- Title/Chapter playback is not available with some DVDs.

Repeat Playback, A-B Repeat 27

Repeat Playback

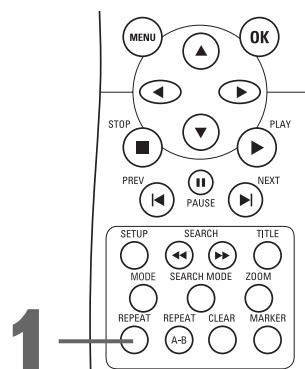
- During DVD, Audio CD, MP3, JPEG, or Video CD (without PBC) playback, press REPEAT until the repeat mode you want appears on the TV. On a DVD, select CHAPTER, TITLE, or OFF. On an Audio CD or Video CD (without PBC), select TRACK, ALL (all Tracks on the Disc), or OFF. With MP3 or JPEG Files, select TRACK, GROUP (all Tracks in the current Folder), ALL, or OFF. Selecting a new Track, Chapter, or Title will cancel repeat playback.



Example: Repeat a DVD Chapter



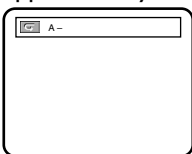
Example: Repeat an Audio CD or Video CD Track



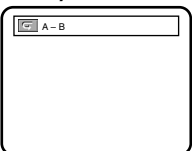
A-B Repeat

You can play a section of a DVD, Audio CD, or Video CD repeatedly. Follow these steps to set up the section you want to repeat.

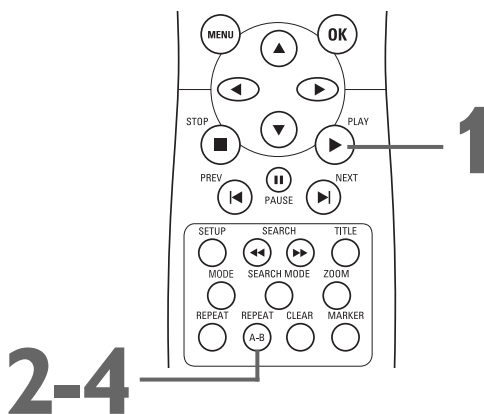
- Press **PLAY** ► to play the Disc to the point at which you want repeated playback to begin.
- Press **A-B REPEAT** to set the starting point (A). If you make a mistake, press **CLEAR**. This will erase point A and let you start over. ⏮ OFF will appear briefly on the TV screen.



- Play the Disc to the point at which you want repeated playback to end, then press **A-B REPEAT** again. Within a few seconds, the section will begin to play. The segment will play over and over until you cancel the A-B Repeat feature.



- To cancel A-B Repeat, press **A-B REPEAT** so ⏮ OFF appears on the TV screen. Regular playback will resume.



Helpful Hints

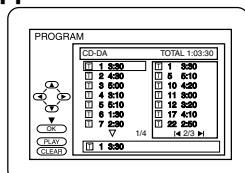
- Repeat playback is not available with some Discs.
- The entire A-B Repeat section must be within a single Title or Track. If you do not enter Point B before the end of the Track or Title is reached, the end of the Track or Title will become Point B automatically.
- Point B must be later on the Disc than Point A.
- A-B Repeat is not available with MP3 Files.
- If you choose GROUP Repeat during DUAL PLAYBACK, all Tracks or Files in each Folder will play repeatedly. For example if you choose GROUP Repeat during DUAL PLAYBACK of MP3 Folder A and JPEG Folder B, all MP3 Files in Folder A and all JPEG Files in Folder B will be repeated.

28 Program Playback

Program Playback

You may determine the order in which Audio CD, MP3, or JPEG Files will play. To set a Program, follow these steps.

- 1 While playback is stopped, press **MODE** repeatedly until the **PROGRAM** screen appears.

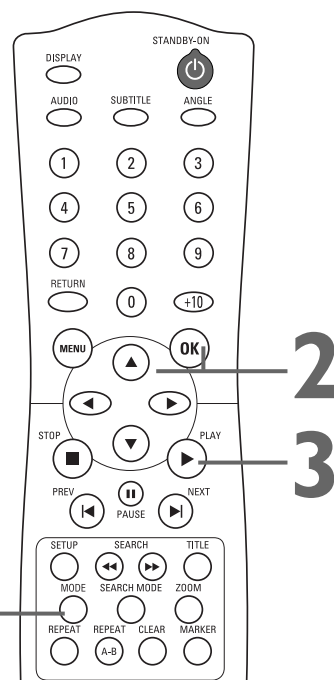


Example: Audio CD

- 2 Press **▲** or **▼** to select a Track you want to play, then press **OK**. Press **CLEAR** to erase the last Track in the Program if you make an error. Additional Tracks may be on other screens. Press **▼** to go on to the next page, and press **▲** to go back to the previous page. Repeat this step until you have selected all the Tracks you wish to play in the Program. To see Tracks in a Program when there are more than eight tracks, use **PREV** **◀** and **NEXT** **▶** to see all the Tracks. For MP3 or JPEG Folders, press **◀** or **▶** to go to the previous or next level of folders. Press **TITLE** to return to the first item in the highest level.

- 3 Press **PLAY** **▶**. The Tracks will play once in the order you set. Turning off the Player or opening the disc tray will erase the Program.

- 4 Press **MODE** repeatedly to remove the display.



Helpful Hints

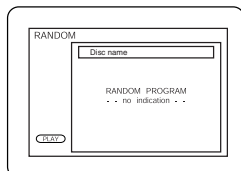
- Do not use the Number buttons or **SEARCH MODE** to select another Track during Program playback. Use **NEXT** **▶** or **PREV** **◀**.
- You cannot combine random playback with programmed playback.
- To play a Program or a Track within a Program repeatedly, press **REPEAT** so **TRACK** or **ALL** (all programmed Tracks) appears.
- You cannot alter a Program during playback.
- You can start Program playback only while in the **PROGRAM** screen.
- A Program can have a maximum of 99 Tracks.
- To erase all Tracks in the Program, select **ALL CLEAR** at step 2.
- Program Playback is not available while **DUAL PLAYBACK** is ON.

Random Playback 29

Random Playback

You may play the Tracks of an Audio CD in Random order instead of the order in which they are recorded (1,2,3...). You can also use this feature for JPEG and MP3 Files.

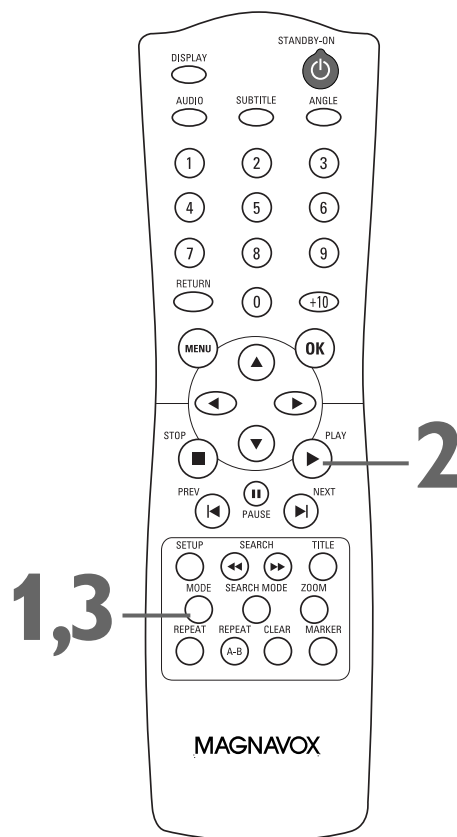
- 1 While playback is stopped, press **MODE** until the **RANDOM** screen appears.



Example: MP3
(DUAL PLAYBACK - OFF)

- 2 While the **RANDOM** screen appears, press **PLAY ►**. The Tracks will play in random order. After all the Tracks play once, playback will stop.

- 3 Press **MODE** repeatedly to remove the display.



Helpful Hints

- Random Playback is not available while DUAL PLAYBACK is ON.

30 MP3/JPEG Playback

The DVD Player will play MP3 or JPEG Files that you record and finalize on a CD-RW (Compact Disc-Rewritable) or CD-R (Compact Disc-Recordable).

These Discs may contain pictures in a JPEG format or audio Tracks in an MP3 format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format. Or, you may copy or download MP3 music files from certain legal Internet sites, then copy those files onto a CD-R or CD-RW.

You cannot make or record such Discs using this Player. See your computer manual for details on recording. Keep these characteristics in mind when making Discs you intend to play on the DVD Player.

- Record MP3 Tracks at a sampling frequency of 44.1 kHz or 48 kHz. Record in a bit rate between 32 kbps and 320 kbps.
- When recording JPEG Files, the size of the picture should be between 32 x 32 and 6300 x 5100 dots.

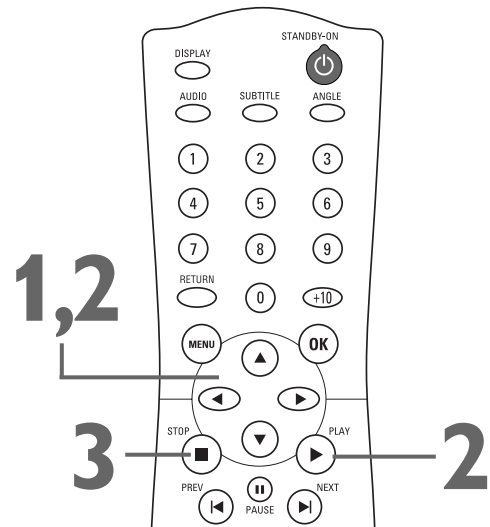
1 When you put a CD-RW or CD-R with MP3 or JPEG Files in the Player, a File List will appear on the TV when you press MENU. (If you use **PLAY ►** to close the Disc tray, playback starts automatically.) **Press ▲ or ▼ to select a Folder, an MP3 or a JPEG File.**

2 If you choose a Track or File, press **PLAY ►** or **OK**. Starting with the Track or File you selected, the Tracks/Files will play in the order they were recorded, i.e. 1, 2, 3.

If you select a Folder and press OK, the Tracks or Files within that Folder will appear. Press ▲ or ▼ to select the Track or File you want to play, then press PLAY ► or OK.

- Press TITLE to return to the first item in the highest level of folders or files. You also can press ◀ or ▶ to return to previous or next levels.
- To change the TRANSITION MODE for JPEG playback, press MODE repeatedly until TRANSITION MODE appears on top of the TV screen during playback. Then press ◀, ▶, or OK to switch CUT IN/OUT and FADE IN/OUT. If you choose CUT IN/OUT, the images will cut in and out sharply as playback progresses. If you choose FADE IN/OUT, the images will fade in and out as playback progresses.
- To change the size of the playback image, press MODE repeatedly until SIZE MODE appears on top of the TV screen during playback. Then press ◀, ▶, or OK to switch NORMAL(100%) and SMALL(95%).
- Press MODE to remove the display.
- During JPEG playback, press ◀ or ▶ to rotate a picture 90 degrees clockwise or counter-clockwise.

3 To stop playback, press **STOP ■**.



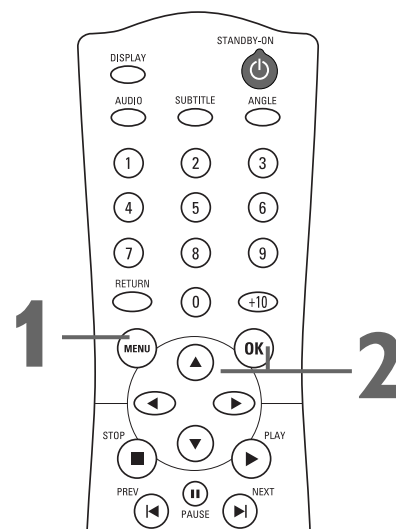
Helpful Hints

- JPEG images and MP3 Tracks are known as Files. Groups of Files are called Folders.
- Folders have the □ icon, JPEG Files have the ☺ icon, and MP3 Files have the 🎵 icon.
- A maximum of 255 Folders can be recognized. A maximum of 999 Files can be recognized.
- If you use **PLAY ►** to close the Disc tray, playback starts automatically. If you use **OPEN/CLOSE ▲** to close the Disc tray, you have to press **PLAY ►** to start playback.
- During playback, press the Number buttons to select another Track. Or, press **NEXT ►** or **PREV ◀** to change Tracks. If a Track is not available, "X" may appear on the TV screen, and playback may resume at an incorrect Track or may continue with its current Track.
- Specific Time playback is not possible with MP3 Files.
- To see the File List during playback, press MENU. The current Track will be highlighted.
- Progressive JPEGs (JPEG Files saved in the progressive format) will not play on this DVD player.
- High resolution JPEG Files takes longer to be displayed.
- SIZE CHANGE MODE may have no effect on some files (e.g. Files with a small picture size).

MP3/JPEG Playback (cont'd) 31

To enjoy DUAL PLAYBACK

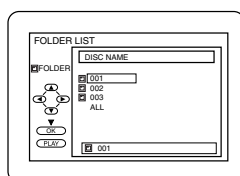
- 1** Press **MENU** during MP3/JPEG playback.
A File List will appear.
- 2** Press **▲** or **▼** to select a desired JPEG/MP3 File from the List and press **PLAY ►** or **OK**.
DUAL PLAYBACK begins. See page 46-47 on how to set the DUAL PLAYBACK ON or OFF.
- 3** To stop playback, press **STOP ■**.



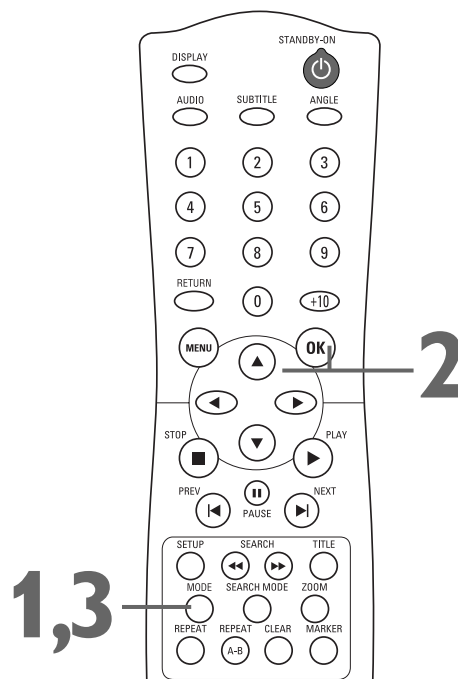
Folder Playback (available only when DUAL PLAYBACK is ON)

You may select to play a Folder.

- 1** While playback is stopped, press **MODE**.
A Folder List will appear.
- 2** Press **▲** or **▼** to select a **FOLDER**, then press **PLAY ►** or **OK**.
 - MP3 and JPEG Files in the selected Folder will play simultaneously.



- 3** Press **MODE** again to remove the display.



Helpful Hints

- If you press **PLAY ►** directly after you inserted a disc which contains both MP3 and JPEG Files and if the **DUAL PLAYBACK** setting is ON, **DUAL PLAYBACK** will start automatically.
- Zooming or rotating a JPEG File during **DUAL PLAYBACK** may cause an intermittent sound.

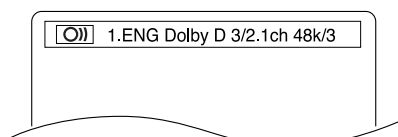
32 Audio Language, Stereo Sound

Audio Language

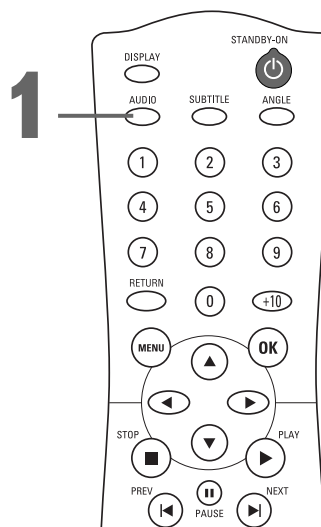
You can select a language for DVDs during playback if multiple languages are available.

- 1 During DVD playback, press **AUDIO** repeatedly to choose one of the available languages. Audio display appears at the top of the TV screen, and the new audio will be heard. The display will disappear after about 5 seconds.

The Audio display may show the current settings for the Dolby Digital or multi-channel (5.1 CH) sound, if they are available on the disc, and the sampling rate of the disc. The number of available languages appears after the “ / ” at the right of the display (/3, for example).



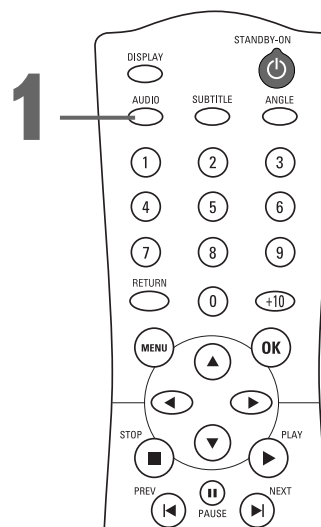
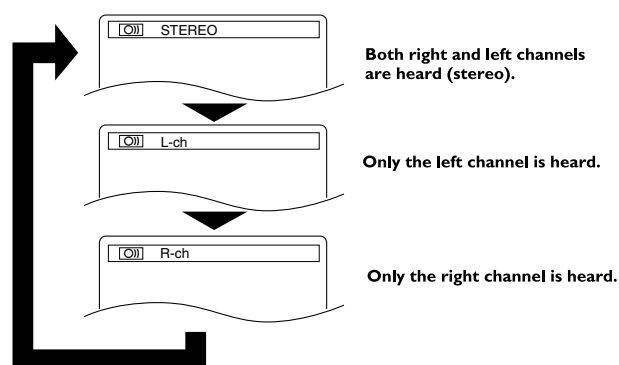
Example: English audio



Stereo Sound

Adjust Stereo Sound to determine whether you will hear the left channel, the right channel, or both channels (stereo) during Audio CD or Video CD playback.

- 1 Press **AUDIO** repeatedly during Audio CD playback to choose **STEREO**, **L-ch**, or **R-ch**.



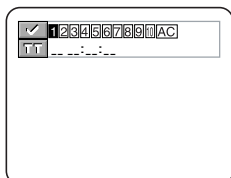
Helpful Hints

- If a language is not available after pressing **AUDIO** several times, the DVD does not have that language.
- Some DVDs only let you change the language in the Disc menu.
- Audio languages may be abbreviated (such as ENG for English). Or, three dashes (- - -) may appear instead of an abbreviation.

Markers 33

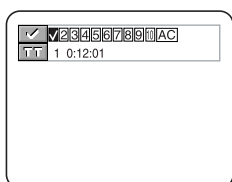
Use Markers to remember your favorite places on a DVD, an Audio CD, or a Video CD (without PBC).

- 1 **Play the Disc to within 30 seconds of the point at which you want to set the Marker.** During playback, press **MARKER**. The Markers will appear at the top of the TV screen.

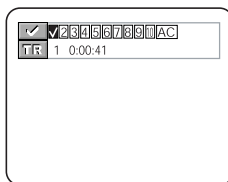


Example: DVD

- 2 **Within 30 seconds, press ◀ or ▶ to select a Marker (1-10).** Make sure _ _ : _ _ : _ _ appears beneath the number.
- 3 **When playback reaches the point you want to remember, press OK.** The Title or Track number and its elapsed playing time will appear beneath the Markers. A checkmark will replace the Marker number. The Marker display will disappear in about 30 seconds, or press **MARKER** again to remove it.

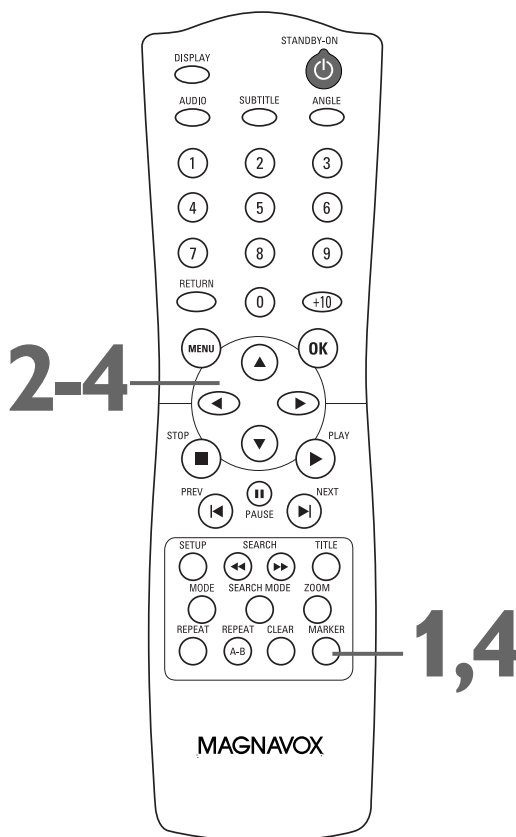


Example: DVD



Example: Audio CD and Video CD

- 4 **To return to a Marker during playback, press MARKER.** Press ◀ or ▶ to choose the Marker you want, then press **OK**. Disc playback will continue from the marked point.



Helpful Hints

- Opening the disc tray or turning off the Player will erase all the Markers.
- To erase a single Marker, press **MARKER**. Press ◀ or ▶ to select a Marker. Press **CLEAR**. Press **RETURN** or **MARKER** to remove the display.
- To erase all the Markers, press **MARKER** until you see the Markers. Press ▶ to select **AC** (All Clear), then press **OK**. Press **MARKER** or **RETURN** to remove the display.

34 Subtitles, Camera Angles

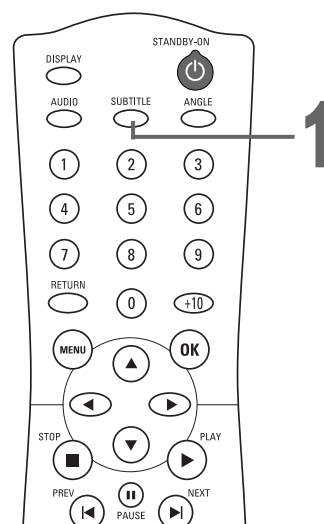
Subtitles

The DVD Player allows you to select a language for subtitles during playback. You may select only the subtitles that are available on the DVD.

- 1** During DVD playback, press **SUBTITLE** repeatedly to select a subtitle language. The number of available languages appears at the right of the subtitle display. In the example below, six languages are available (/6). After a few seconds, the subtitles will appear. Or, press SUBTITLE repeatedly to turn off subtitles. OFF will appear beside the subtitle icon on the TV screen. When no subtitles are available, "NOT AVAILABLE" appears at the right of the subtitle display.



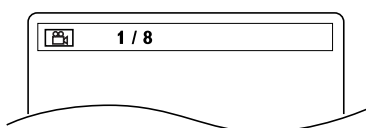
Example: English as first of six available subtitles



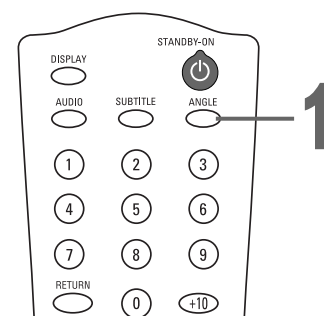
Camera Angles

Some DVDs contain scenes recorded from different angles or perspectives. The perspective will not change if the DVD does not contain sequences recorded from different camera angles.


- 1** During playback, press **ANGLE** repeatedly to select a different perspective. The number of available angles appears at the right of the Angle display. In this example, eight angles are available (/8).



Example: Angle 1 of eight available angles



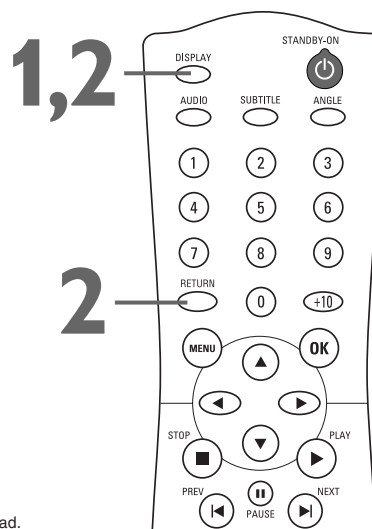
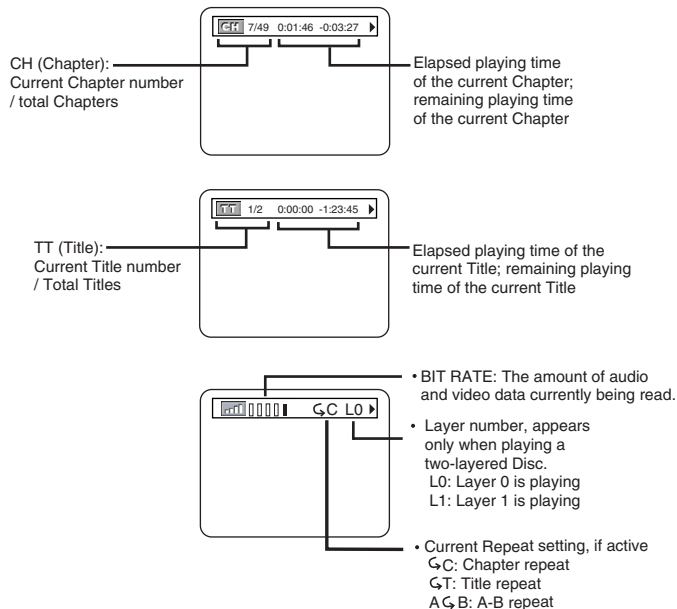
Helpful Hints

- With some DVDs, you must select a subtitle language in the Disc menu.
- If the desired language does not appear after pressing SUBTITLE several times, the Disc does not have subtitles in that language.
- Opening the disc tray will cancel your subtitle setting.
- If the ANGLE ICON setting is ON,  will appear on the TV screen when the current portion of the Disc has multiple camera angles. To set the ANGLE ICON ON or OFF, see page 46-47.

On-Screen Displays 35

DVD Display

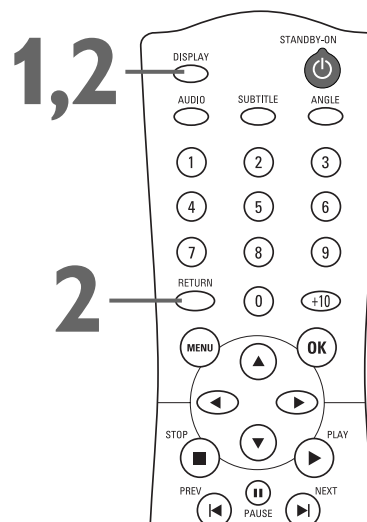
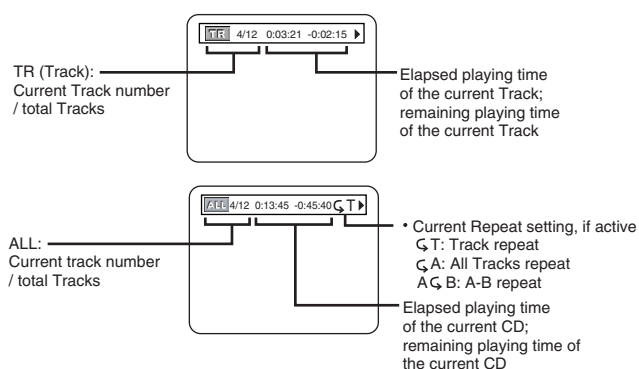
- 1** Press **DISPLAY** repeatedly to see the following displays during DVD playback.



- 2** Press **DISPLAY** repeatedly or press **RETURN** to remove the display.

Audio CD and Video CD Displays

- 1** Press **DISPLAY** repeatedly to see the following displays during Audio CD or Video CD (without PBC) playback.



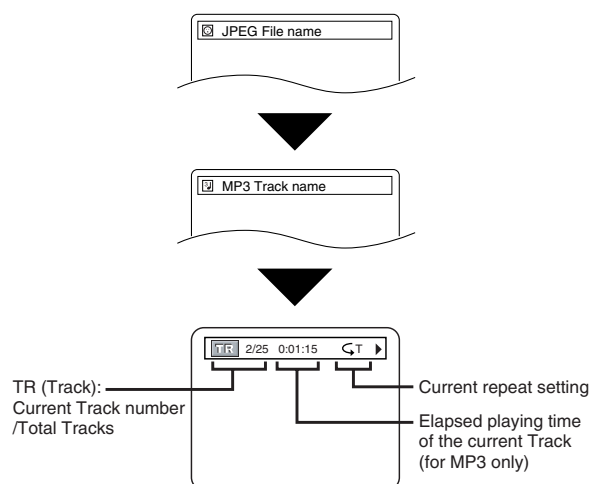
- 2** Press **DISPLAY** repeatedly or press **RETURN** to remove the display.

36 On-Screen Displays (cont'd)

MP3/JPEG Displays

Review MP3 and JPEG File information during playback.

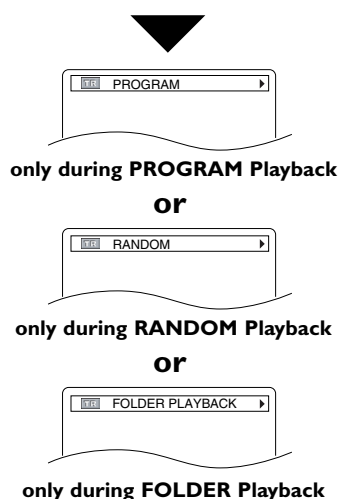
- 1** Press **DISPLAY** until the current Track or File information appears.



Example: MP3 Track

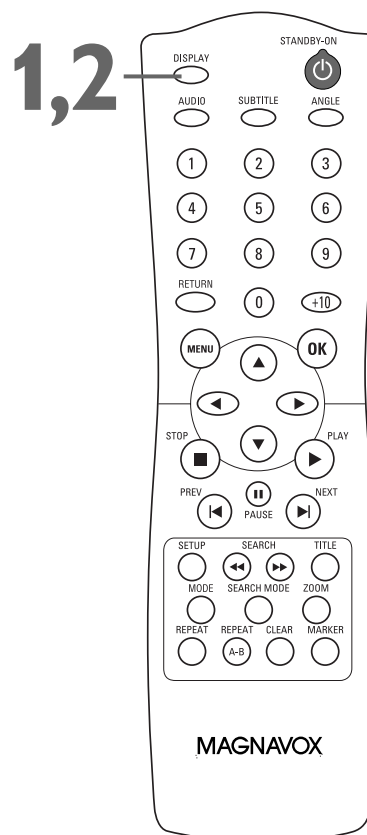
The following may appear to indicate Repeat playback.

- ↳ T: The current Track will play repeatedly.
- ↳ G: Tracks in the current Folder (Group) will play repeatedly.
- ↳ A: All Tracks will play repeatedly



- PROGRAM and RANDOM Playback is available only when DUAL PLAYBACK is OFF.
- FOLDER PLAYBACK is available only when DUAL PLAYBACK is ON.

- 2** Press **DISPLAY** again to remove the display.



Helpful Hints

- For MP3 Files recorded with Variable Bit Rate (VBR), the elapsed time displayed on the screen may vary from the actual elapsed time.

Black Level, Virtual Surround 37

Black Level

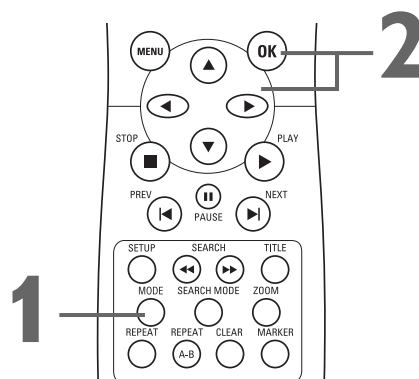
Adjust Black Level to brighten the DVD or Video CD picture.

- 1 During DVD or Video CD playback, press **MODE** so the Black Level icon shows in the top left corner of the TV screen.



ON

- 2 Within 10 seconds, press **◀▶**, or **OK** repeatedly to choose **ON** or **OFF**. ON brightens the dark parts of the picture. OFF shows the original picture as recorded.



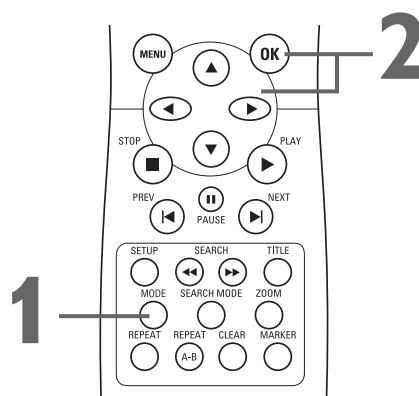
Virtual Surround

You can enjoy improved stereo sound when you play DVDs, Audio CDs, Video CDs, or MP3 Files recorded in Dolby Digital or Pulse Code Modulation (PCM). Check the Disc case for details on availability.

- 1 During Disc playback, press **MODE** repeatedly until the Virtual Surround icon appears in the top left corner of the TV screen.
- 2 While the Virtual Surround icon appears, press **◀▶**, or **OK** to choose **1**, **2**, or **OFF**. The default setting is OFF. The icon will disappear after about 10 seconds.



OFF



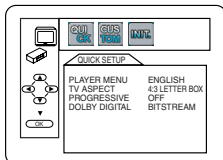
Helpful Hints

- Black Level is not available for a PAL DVD.
- Virtual Surround is available only when the Player is connected to a Stereo or TV using the red and white AUDIO OUT jacks on the Player.
- For Audio CDs and Video CDs, you can adjust Virtual Surround only if you set Stereo Sound to Stereo. Details are on page 32.
- The Black Level and Virtual Surround settings will be saved even if the Player is turned off.

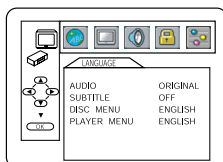
38 Language

You can select different languages for the Audio or Subtitles of DVDs, as well as languages for DVD Disc menus and the Setup menus of the DVD Player.

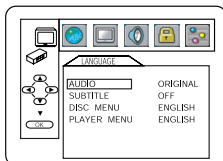
- 1 While playback is stopped, press **SETUP**. The QUICK SETUP screen appears.



- 2 Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **OK**.



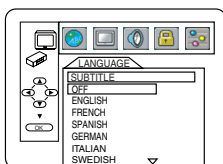
- 3 (LANGUAGE) will be selected. Press **OK**.



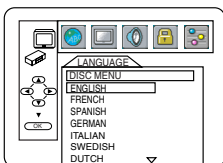
- 4 Press **▲** or **▼** to select **AUDIO**, **SUBTITLE**, **DISC MENU**, or **PLAYER MENU**. Press **OK**. The language options for the selected item will appear.



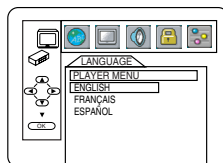
AUDIO: The DVD's audio plays in the selected language.



SUBTITLE: Subtitles appear in the chosen language.

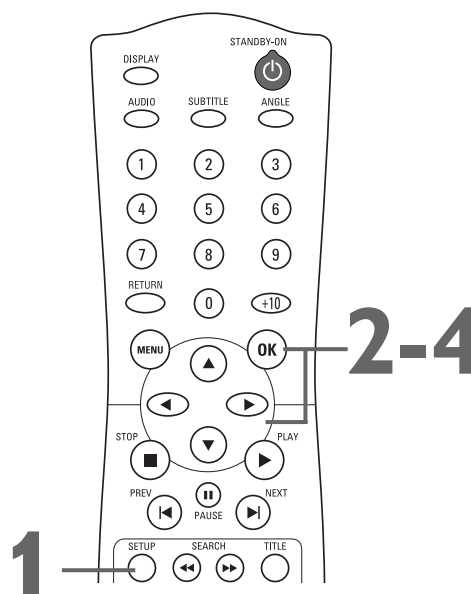


DISC MENU: A DVD's Disc menu appears in the chosen language.



PLAYER MENU: The DVD Player's Setup menu can be in English, French, or Spanish only.

Instructions continue on the next page.

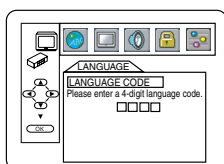


Helpful Hints

- If the DVD's default settings for Audio and Subtitle are the same language, the subtitles may not show unless you turn them on.
- Use the **AUDIO** and **SUBTITLE** buttons to select Audio and Subtitles available on the DVD. Details are on pages 32, 34.
- If you set **AUDIO** to **ORIGINAL**, the default setting of the DVD Audio will play.
- If you set **PLAYER MENU** to **FRANÇAIS** (French) or **ESPAÑOL** (Spanish) and need English: Follow steps 1-2. At step 3, the **IDIOMA** or **LANGUE** menu will appear. Press **OK**. Press **▼** to select **MENU DU LECTEUR** or **MENÚ REPRODUC.**, then press **OK**. Press **▲** to select **ENGLISH**, then press **OK**. The menus will change to English. Press **SETUP** to remove the menus.
- You can change the **PLAYER MENU** language in the **QUICK SETUP** menu that appears when you first press **SETUP**. With **QUICK** selected, press **OK**. **PLAYER MENU** will be selected. Press **OK**. Press **▲** or **▼** to choose a language, then press **OK**. Press **SETUP** to remove the menu.
- The language settings may not take effect until you restart Disc playback from the beginning.

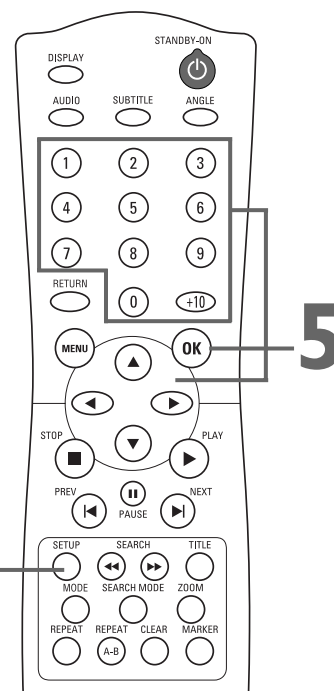
Language (cont'd) 39

- 5** Press **▲** or **▼** to select a language, then press **OK**. The language lists may continue on multiple screens. Press **▲** or **▼** to move to the other screens.
- If you select **OTHER** for **AUDIO**, **SUBTITLE**, or **DISC MENU**, press four Number buttons to enter the code for the language you desire. Use one of the Language Codes below. The language or language code you select will appear in the Language menu beside **AUDIO**, **SUBTITLE**, or **DISC MENU**.



- You can select other languages for **AUDIO**, **SUBTITLE**, and **DISC MENU** only if the language is available on the Disc. If the language you select is not recorded on the DVD, changing these settings will have no effect.

- 6** Press **SETUP** to remove the menu.



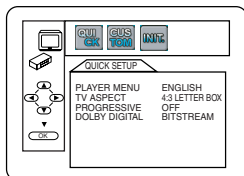
Language Codes

A-B								T	
Abkhazian	4748	English	5160	Kannada	5760	Panjabi	6247	Tagalog	6658
Afar	4747	Esperanto	5161	Kashmiri	5765	Pashto	6265	Tajik	6653
Afrikaans	4752	Estonian	5166	Kazakh	5757	Persian	5247	Tamil	6647
Albanian	6563	F-H		Kinyarwanda	6469	Polish	6258	Tatar	6666
Amharic	4759	Faroese	5261	Kirghiz	5771	Portuguese	6266	Telugu	6651
Arabic	4764	Fiji	5256	Kirundi	6460	Pushto	6265	Thai	6654
Armenian	5471	Finnish	5255	Korean	5761	Quechua	6367	Tibetan	4861
Assamese	4765	French	5264	Kurdish	5767	Rhaeto-Romance	6459	Tigrinya	6655
Aymara	4771	Frisian	5271	L-N		Romanian	6461	Tonga	6661
Azerbaijani	4772	Gaelic (Scots)	5350	Laothian	5861	Russian	6467	Tsonga	6665
Bangla	4860	Galician	5358	Latin	5847	S		Turkish	6664
Bashkir	4847	Georgian	5747	Latvian	5868	Samoan	6559	Turkmen	6657
Basque	5167	German	5051	Lettish	5868	Sangho	6553	Twili	6669
Bengali	4860	Greek	5158	Lingala	5860	Sanskrit	6547	U-Z	
Bhutani	5072	Greenlandic	5758	Lithuanian	5866	Serbian	6564	Ukrainian	6757
Bihari	4854	Guarani	5360	Macedonian	5957	Serbo-Croatian	6554	Urdu	6764
Bislama	4855	Gujarati	5367	Malagasy	5953	Sesotho	6566	Uzbek	6772
Breton	4864	Hausa	5447	Malay	5965	Setswana	6660	Vietnamese	6855
Bulgarian	4853	Hebrew	5569	Malayalam	5958	Shona	6560	Volapuk	6861
Burmese	5971	Hindi	5455	Maltese	5966	Sindhi	6550	Welsh	4971
Byelorussian	4851	Hungarian	5467	Maori	5955	Singhalese	6555	Wolof	6961
C-E		I-K		Marathi	5964	Slovak	6557	Xhosa	7054
Cambodian	5759	Icelandic	5565	Moldavian	5961	Slovenian	6558	Yiddish	5655
Catalan	4947	Indonesian	5560	Mongolian	5960	Somali	6561	Yoruba	7161
Chinese	7254	Interlingua	5547	Nauru	6047	Spanish	5165	Zulu	7267
Corsican	4961	Interlingue	5551	Nepali	6051	Sundanese	6567		
Croatian	5464	Inupiak	5557	Norwegian	6061	Swahili	6569		
Czech	4965	Irish	5347	O-R		Swedish	6568		
Danish	5047	Italian	5566	Occitan	6149				
Dutch	6058	Japanese	5647	Oriya	6164				
		Javanese	5669	Oromo (Afan)	6159				

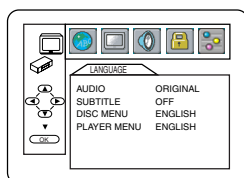
40 Display

You may adjust the TV Aspect ratio and Still Mode clarity, and Progressive Scan compatibility.

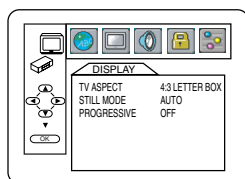
- 1 When playback is stopped, press **SETUP**. The QUICK SETUP screen will appear.



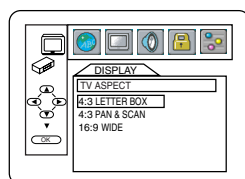
- 2 Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **OK**.



- 3 Press **◀** or **▶** to select **DISPLAY**, then press **OK**.

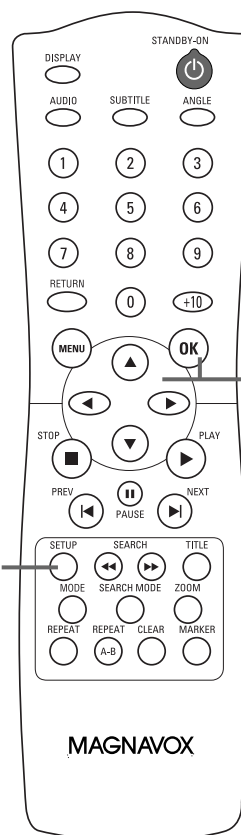


- 4 Press **▲** or **▼** to select an item, then press **OK**.
 - If you selected **TV ASPECT**, press **▲** or **▼** to select a setting, then press **OK**.
 Choose 4:3 LETTER BOX if you want to see the entire, widened picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the letterbox or widescreen format.
 Choose 4:3 PAN & SCAN for a full height picture, with both sides trimmed. Some companies refer to this as reformatting the picture to fit your TV screen and may call it the regular or normal format.
 Choose 16:9 WIDE if you connected a widescreen TV to the DVD Player.



TV ASPECT

Instructions continue on the next page.



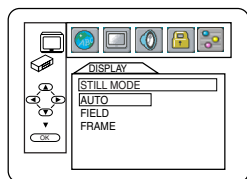
Helpful Hints

- Selecting a different TV ASPECT setting is only effective if it is available on the DVD. Check the DVD Disc menu or case for details.
- You also can adjust TV ASPECT in the QUICK SETUP menu that appears when you first press the SETUP button. With QUICK selected, press OK. Press ▼ to select TV ASPECT, then press OK. Press ▲ or ▼ to choose a setting, then press OK. Press SETUP to remove the menu.

Display (cont'd) 41

Instructions continued from previous page

- If you selected **STILL MODE**, press **▲** or **▼** to select a setting, then press **OK**. This determines the quality of an image in still mode. **AUTO** is the default setting. If you select **FIELD**, still images will be stabilized but coarse due to the small amount of data. If you select **FRAME**, the images will be highly defined due to the simultaneous output of two fields.

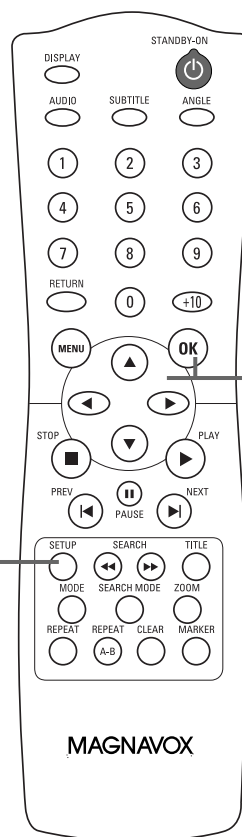


STILL MODE

5

Press **SETUP** to remove the menu.

5

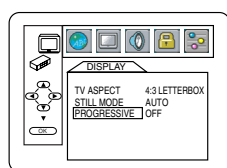


42 Progressive Scan

You may adjust the Progressive Scan compatibility.

1 Follow the steps 1-3 in the **Display SETUP SECTION** on page 40.

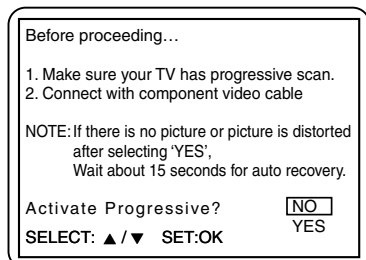
2 • Press **▲** or **▼** to select **PROGRESSIVE**, then press **OK** repeatedly to turn **PROGRESSIVE** ON or OFF. The default setting is OFF. Choose ON if your TV has Progressive Scan and if the TV is connected to the Player's **COMPONENT VIDEO OUT** jacks. Choose OFF otherwise.



PROGRESSIVE

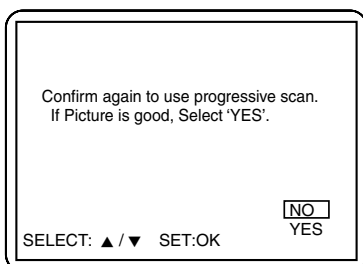
3 Press **SETUP** to remove the menu.

• If **PROGRESSIVE** is ON, this message appears:



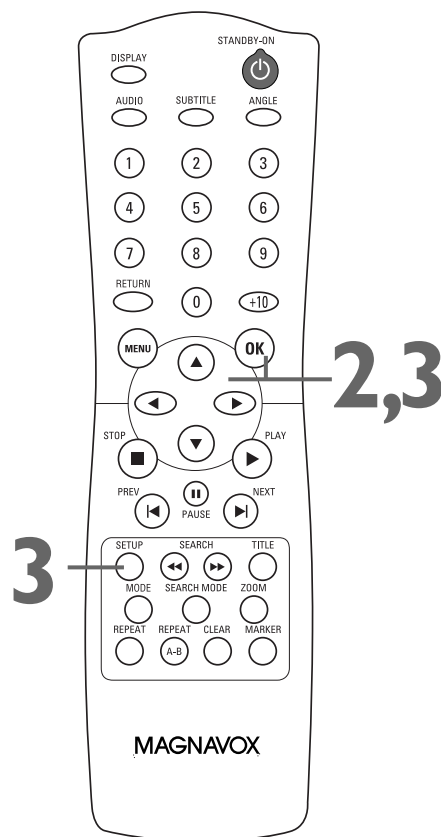
Press **▲** or **▼** to make a selection, then press **OK**.

If you select **NO**, the menu disappears and **PROGRESSIVE** is OFF. If you select **YES**, this appears:



Confirm your setting, then press OK. The menu will disappear and **PROGRESSIVE** will be ON.

If you do not press any buttons for 15 seconds, Progressive Scan will switch to OFF.



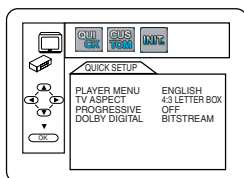
Helpful Hints

- You can set **PROGRESSIVE** to OFF either in the **DISPLAY** menu or by pressing and holding **PLAY ►** on the front of the Player for more than 5 seconds.
- When **PROGRESSIVE** is ON, no video is available through the Player's **VIDEO OUT** and **S-VIDEO OUT** jacks.
- You can adjust **PROGRESSIVE** in the **QUICK SETUP** menu that appears when you first press **SETUP**. With **QUICK** selected, press **OK**. Press **▼** to select **PROGRESSIVE**. Press **OK** to choose OFF or ON. Press **SETUP** to remove the menu.

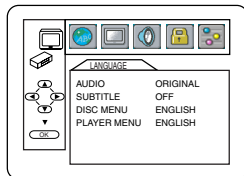
Audio 43

Change Audio settings based on other equipment you connected to the DVD Player or according to your Disc sound features.

- 1** While playback is stopped, press **SETUP**. The QUICK SETUP screen will appear.

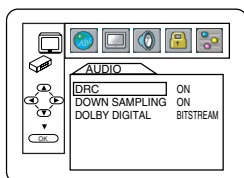


- 2** Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **OK**.



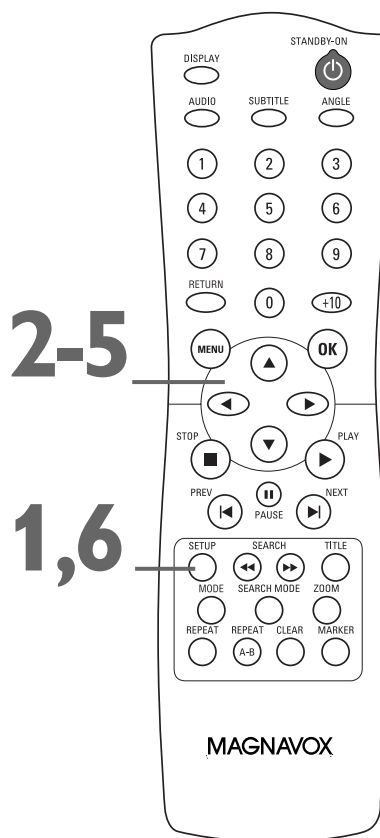
- 3** Press **◀** or **▶** to select **AUDIO** at the top of the menu, then press **OK**.

- 4** Press **▲** or **▼** to select **DRC**, **DOWN SAMPLING**, or **DOLBY DIGITAL**, then follow step 5 accordingly.



- 5**
- If you selected **DRC**, press **OK** repeatedly to turn Dynamic Range Control (DRC) ON or OFF. Choosing ON compresses the range of volume by suppressing loud sounds and raising low sounds. DRC is available only on Discs recorded in the Dolby Digital format.
 - If you selected **DOWN SAMPLING**, press **OK** repeatedly to choose ON or OFF. Choose ON to set downsampling to 48 kHz. Choose OFF to set downsampling to 96 kHz. DOWN SAMPLING is available only when the Player is connected to a Stereo using the COAXIAL DIGITAL AUDIO OUT jack as described on page 15.
 - If you selected **DOLBY DIGITAL**, press **OK** repeatedly to select BITSTREAM or PCM. Select BITSTREAM if you used the COAXIAL DIGITAL AUDIO OUT jack to connect the DVD Player to a stereo that is Dolby Digital compatible. Details are on page 15. Otherwise, choose PCM.

- 6** Press **SETUP** to remove the menu.



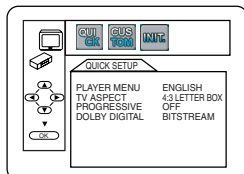
Helpful Hints

- Dolby Digital sound must be available on the DVD.
- You can adjust DOLBY DIGITAL in the QUICK SETUP menu that appears when you first press SETUP. With QUICK selected, press OK. Press ▼ to select DOLBY DIGITAL. Press OK to choose BITSTREAM or PCM. Press SETUP to remove the menu.
- When you play a Disc that has copyright protection, downsampling will be at 48 kHz, even if you set DOWN SAMPLING to OFF.

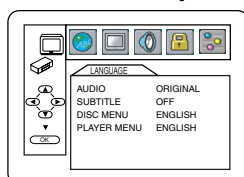
44 Parental Levels

Follow these steps to set the rating level for your DVDs.
DVDs whose ratings exceed the level you set will not play.

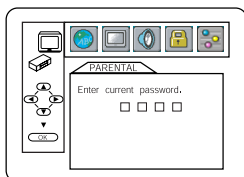
1 Press SETUP while playback is stopped.



2 Press ◀ or ▶ to select CUSTOM at the top of the menu, then press **OK**.

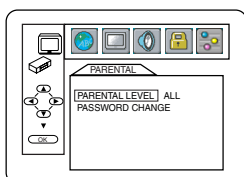


3 Press ◀ or ▶ to select PARENTAL at the top of the menu, then press **OK**.

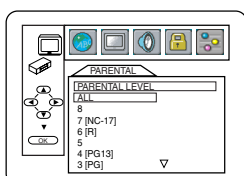


4 Press the Number buttons to enter your four-digit password.

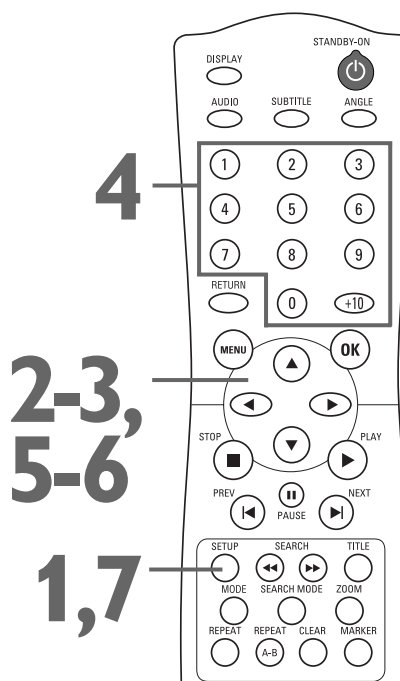
5 Press ▲ or ▼ to select PARENTAL LEVEL, then press **OK**.



6 Press ▲ or ▼ to select a level, then press **OK**.
The rating levels continue on two menu screens. Press ▲ or ▼ repeatedly to move to the next or previous screen to find the rating level you want. After making your selection, the previous menu will appear. The level you selected will appear beside PARENTAL LEVEL.



7 Press SETUP to remove the menu.



RATING EXPLANATIONS

- ALL - The Parental feature is inactive; all discs can play.
- 8 - Adult material
- 7 - NC-17 - Not appropriate for children under 17
- 6 - R - Restricted; parental approval required for viewers under 17.
- 4 - PG-13 - Unsuitable for children under 13
- 3 - PG - Parental Guidance suggested.
- 1- G - General Audience; recommended for all ages.

Helpful Hint

- When you try to play a DVD whose rating exceeds the level you set, an on-screen message will indicate the DVD cannot play. Remove the DVD, then set PARENTAL LEVEL to ALL. Reload the DVD and begin playback. Some DVDs may let you enter your four-digit password to begin playback. Follow the on-screen messages as prompted.

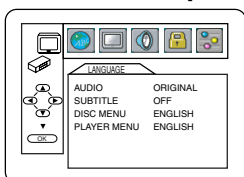
Parental Password 45

The Parental feature prevents viewing of DVDs that exceed your rating limits. This feature will not limit viewing if the DVD is not rated or coded. Check your DVDs and settings before letting children access the Player.

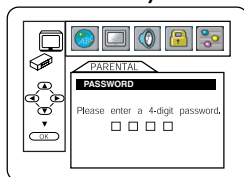
You will need a password to change the Parental settings or to play a blocked Disc. Follow these steps to change your password.

1 Press **SETUP** while playback is stopped. The **QUICK SETUP** screen will appear.

2 Press **◀ or **▶**** to select **CUSTOM** at the top of the menu, then press **OK**.



3 Press **◀ or **▶**** to select **🔒 (PARENTAL)**, then press **OK**. The first time you set a password, this menu will appear.

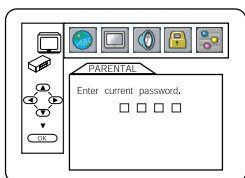


Press the Number buttons to enter a four-digit password. The password will appear on the screen.

Write it down so you don't forget it.

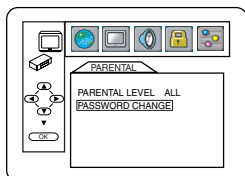
Press **OK, and proceed to step 6.**

If you have set a password before, this menu will appear.



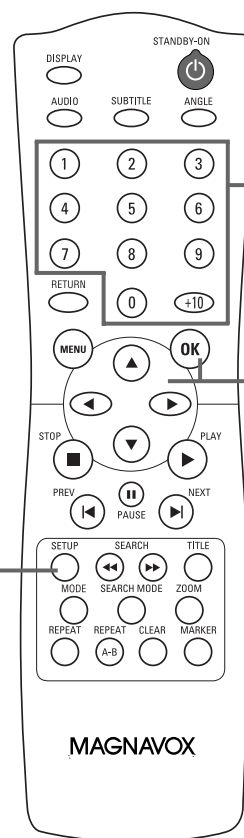
Press the Number buttons to enter your current four-digit password. Asterisks (*) will appear instead of your password. This protects its identity.

4 Press **▲ or **▼**** to select **PASSWORD CHANGE**, then press **OK**.



5 Press the Number buttons to enter a four-digit password. The password numbers will appear on the screen. Write down the password so you will not forget it. **Press **OK**.** The previous menu will reappear.

6 Press **SETUP** to remove the menu.



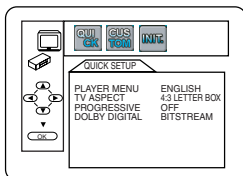
Helpful Hints

- The default password is 4737. If you forget your password, press Number buttons 4, 7, 3, 7 at step 3. You will be prompted to enter a new four-digit password. Use the Number buttons to enter a new four-digit password, then press **OK**. **PARENTAL LEVEL** will reset to **ALL**. Press **SETUP** to remove the menu. See page 44 to reset **PARENTAL LEVEL** as you desire.
- A power failure will not erase your password.

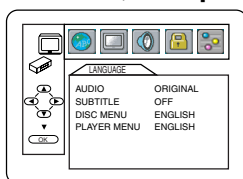
46 Others

You may adjust the Angle Icon availability, Automatic Power Off, and the brightness of the Player's display panel.

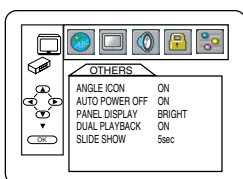
- 1 When playback is stopped, press **SETUP**. The QUICK SETUP screen will appear.



- 2 Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **OK**.

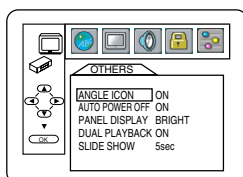


- 3 Press **◀** or **▶** to select **OTHERS**, then press **OK**.



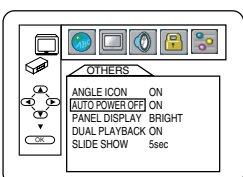
- 4 Press **▲** or **▼** to select an item, then press **OK**.

- If you selected **ANGLE ICON**, press **OK** repeatedly to select ON or OFF. The default setting is ON. Choose ON to see the Angle icon when multiple camera angles are available during DVD playback. Details are on page 34. Choose OFF to disable the Angle icon.



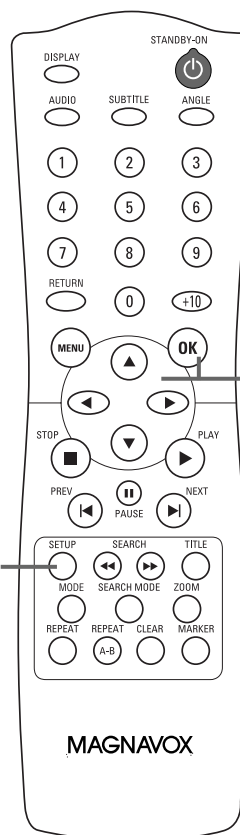
ANGLE ICON

- If you selected **AUTO POWER OFF**, press **OK** repeatedly to choose ON or OFF. The default setting is ON. Choose ON if you want the Player to turn off when there is no activity at the Player or its remote for 30 minutes.



AUTO POWER OFF

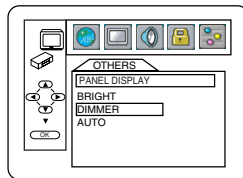
Instructions continue on the next page.



Others (cont'd) 47

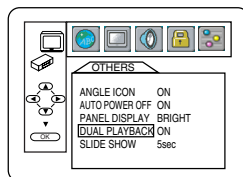
Instructions continued from previous page

- If you selected **PANEL DISPLAY**, press ▲ or ▼ to choose **BRIGHT**, **DIMMER**, or **AUTO**, then press **OK**. This adjusts the brightness of the display panel on the front of the Player. The default setting is **BRIGHT**. Choose **BRIGHT** to keep the display panel at 100% of its available brightness. Choose **DIMMER** to reduce the display's brightness. Choose **AUTO** to dim the display panel only during Disc playback. *Display panel details are on page 19.*



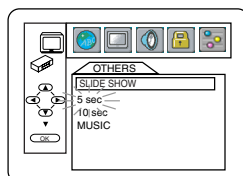
PANEL DISPLAY

- If you selected **DUAL PLAYBACK**, press **OK** to choose **ON** or **OFF**. This feature lets you play **MP3** and **JPEG** Files simultaneously.



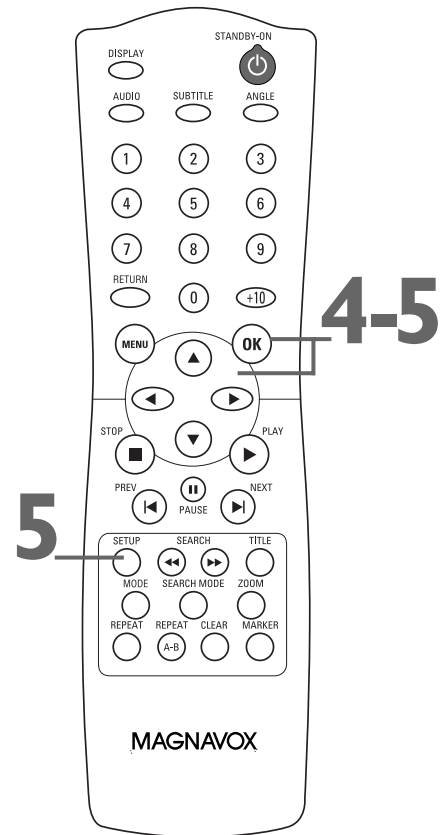
DUAL PLAYBACK

- If you selected **SLIDE SHOW**, press ▲ or ▼ to choose **5sec**, **10sec**, or **MUSIC**, then press **OK**. This adjusts the playback speed of the **SLIDE SHOW**. The default setting is 5 sec. Choose 5 sec to display each image for 5 seconds. Choose 10 sec to display each image for 10 seconds. Choose **MUSIC** to display an image for each MP3 sound file playback when **DUAL PLAYBACK** is **ON**.



SLIDE SHOW

5 Press **SETUP** to remove the menus.



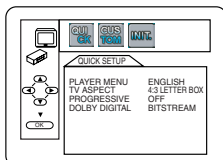
Helpful Hints

- If you select **MUSIC** when **DUAL PLAYBACK** is **OFF**, the playback speed will be set to 5 seconds automatically.

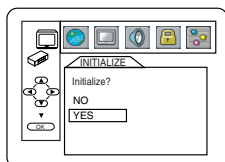
48 Initializing

Use INITIALIZE to return all your DVD Player's SETUP menu items (except PARENTAL) to their default settings.

- 1 While playback is stopped, press **SETUP**. The QUICK SETUP screen appears.

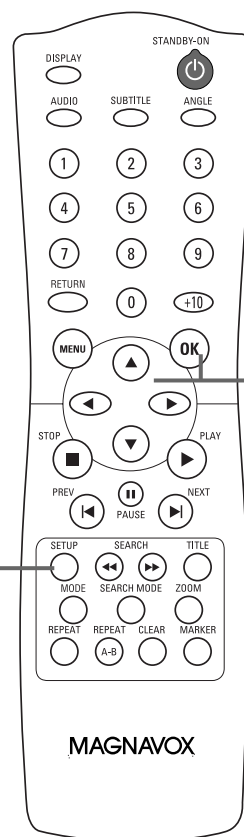


- 2 Press **◀** or **▶** to select **INIT. (INITIALIZE)** at the top of the menu, then press **OK**.



- 3 Press **▲** or **▼** to select **YES**. Then, press **OK** twice. To cancel the process, select **NO** instead.

- 4 Press **SETUP** to remove the menu.

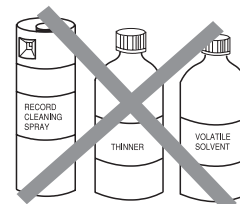


Care and Maintenance, Glossary 49

Care and Maintenance

Cleaning the DVD Player

- Wipe the front panel and other exterior surfaces of the Player with a soft, slightly damp cloth.
- Never use a solvent, thinner, benzene, or alcohol to clean the Player. Do not spray insecticide liquid near the Player. Such chemicals may discolor the surface or damage the Player.



Don't use cleaners.

Cleaning a Disc

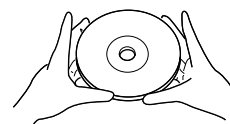
- Use a soft, dry cloth to wipe the Disc.
- Wipe the Disc in a straight line from the center to the edge. Never wipe the Disc in a circular motion.
- Do not use detergent or abrasive cleaning agents.
- Handle the Discs by the edges so fingerprints and dust do not adhere to the surfaces of the Discs.
- Always store the Disc in its protective case when it is not in use.



Wipe Discs from the center to the edge.

Checking the Laser

- If the DVD Player does not operate as described in this owner's manual, the laser may be dirty. Consult an Authorized Service Center for inspection and cleaning of the laser.



Handle Discs by the edges.

Glossary

AUDIO OUT Jacks: Red and white jacks on the back of the DVD Player that send audio to another system (TV or stereo).

COAXIAL DIGITAL AUDIO OUT jack: Sends digital audio to a stereo, allowing you to adjust the volume at the stereo. The stereo must have a Coaxial In jack. This connection provides the 5.1 channel surround sound as heard in movie theaters. The Player's COAXIAL jack is black.

COMPONENT VIDEO OUT (Y Cr/Pr Cb/Pb) Jacks: Green, red, and blue jacks on the back of the DVD Player that send high-quality video to a TV that has Component Video In jacks.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters.

Letterbox: A TV Aspect setting (4:3). Displays the DVD picture in full-width, with black bars at the top and bottom of the TV screen. This format is used often when you see a movie in a theater. If the DVD is not recorded in letterbox format, selecting Letterbox will have no effect. (For example, some DVDs are two-sided, with one side playing in Letterbox and the other side playing in a normal format.)

Pan & Scan: A TV Aspect setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed to fit your TV screen.

Remote Control: The small electronic unit that came with your DVD Player; allows you to operate your DVD Player from a distance.

S-Video: Produces a clearer picture by sending separate signals for the luminance and the color. If you connect an optional S-Video cable, you will not need to use the supplied yellow video cable. You can use S-Video only if your TV has an S-Video In jack.

VIDEO OUT Jack: Yellow jack on the rear of the DVD Player that sends video to a TV. Use the supplied yellow video cable to make this connection.

Wide: A TV Aspect setting (16:9). Displays the video appropriately when you connect the DVD Player to a widescreen TV.

50 Helpful Hints

The DVD Player has no power.

- Make sure the power cord is connected completely to an AC (alternating current) outlet.
- Press STANDBY-ON  to turn on the Player. "P-ON" will appear briefly on the display panel.

The remote control will not operate the DVD Player.

- Aim the remote control directly at the DVD Player's remote sensor. *Details are on page 8.*
- Remove all obstacles between the remote control and the DVD Player.
- Inspect and/or replace the batteries in the remote control. *Details are on page 8.*
- Use the remote control within 23 feet of the DVD Player.

No picture

- Set PROGRESSIVE correctly. Turn it on only if your TV has Progressive Scan and you are using the Component Video connections between the Player and the TV. Disable Progressive Scan for all other connections. *Details are on pages 9, 13, and 42.*
- Connect the video cable correctly. Connect either the yellow video cable (supplied), an optional S-Video cable, or optional component video cables. You only need one video connection between the DVD Player and the TV. *Details are on pages 9-15.*
- Set the TV to the correct Video channel (AUX IN, A/V IN, Auxiliary In, EXT or External In, Component Video In, S-Video In, etc.). These channels usually are located near channel zero. Check your TV owner's manual for details. Or, go to the lowest TV channel (01 or 02) and change channels downward until you see the DVD logo or DVD playback on the TV screen.
- Insert a playable Disc. *Details are on page 7.*

Disc cannot be played.

- Insert a playable Disc. *Details are on page 7.*
- Place the Disc correctly in the recesses in the Disc tray. If the Disc is one-sided, place the Disc in the tray with the label facing up and the shiny side facing down. If the Disc is two-sided, make sure the label of the side you want to play is facing up. *Details are on page 16.*
- Clean the Disc. *Details are on page 49.*
- Check the Parental controls and adjust if necessary. *Details are on pages 44-45.*

No sound

- Connect the supplied audio cables firmly. Make sure the cables are connected to the right and left AUDIO IN jacks on the TV, Stereo, or RF modulator. *Details are on pages 10-14.*
- Check the Audio Settings of the DVD Player. *Details are on page 43.*
- Turn on the power of the Stereo or TV and make sure it is set to the correct Audio In channel or "sound source," usually Auxiliary IN. Refer to the owner's manual of the audio equipment for details.
- Check the Audio Settings of the Disc. For example, you may have selected "soundtrack" on a DVD. *Details are on page 32.*

Distorted picture

- Connect the DVD Player directly to the TV. *Details are on page 9.*
- There are some cases where the picture may be distorted slightly and briefly; this is not a malfunction of the Player.
- Set PROGRESSIVE correctly. Turn it on only if your TV has Progressive Scan and you are using the Component Video connections between the Player and the TV. Disable Progressive Scan for all other connections. *Details are on pages 9, 13, and 42.*
- If your TV is not PAL compatible, DVDs recorded in the PAL color system may play only in black and white, the picture may roll continuously, or the picture may appear distorted.

You cannot adjust DVD features such as the camera angle or audio and subtitle languages.

- The DVD might not contain the feature. Check the DVD Disc menu or the Disc case for details on availability.

An "X" appears on the TV screen, prohibiting an operation.

- You cannot access the current feature at the current time or the feature is not available on the Disc. For example, some menus or features can be accessed or changed only when Disc playback is stopped, while some are available only during playback. Check the instructions for accessing the feature before trying again. Or, check the Disc to see if the feature is available first. *Details are on page 6.*

The DVD Player turns off after 30 minutes.

- If AUTO POWER OFF is activated, the Player turns off if playback stops for more than 30 minutes and you press no buttons on the remote or the Player. When you receive the Player, the factory has set AUTO POWER OFF to ON. *Details are on page 46.*

A large DVD logo appears on the TV screen.

- The DVD logo will appear on the TV screen when you stop Disc playback. The logo may dim after several minutes of no Disc activity. The logo will appear on the screen for 30 minutes, then the Player will turn off as described above. To prevent damage to your TV's picture tube, avoid leaving the DVD logo on the TV screen. Turn off the DVD Player when it is not in use. A prolonged still image, including TV station identification logos or video games, may damage your TV picture tube.

Specifications 51

Product Type

Digital Video Disc Player

Frequency Response

DVD (linear sound): 20 Hz to 22 kHz (sample rate: 48 kHz)

20 Hz to 44 kHz (sample rate: 96 kHz)

Audio CD: 20 Hz to 20 kHz (JEITA)

Signal-to-Noise Ratio (S/N Ratio)

Audio CD: 120 dB JEITA

Dynamic Range

DVD (linear sound): 102 dB

Audio CD: 99 dB (JEITA)

Total Distortion Factor

Audio CD: 0.003% (JEITA)

Power Requirement

120V AC \pm 10%, 60 Hz \pm 0.5%

Connections

S-Video out

Video out

Coaxial digital audio out

Audio out

Mini DIN 4-pin jack (75 Ω)

One pin jack, 1 Vpp (75 Ω)

One pin jack, 500m Vpp (75 Ω)

Two pin jacks

(one left channel, one right channel)

2 Vrms (100 k Ω)

Component video out

One pin jack (Y), 1 Vpp (75 Ω)

Two pin jacks (Cb/Pb and Cr/Pr), 700m Vpp (75 Ω)

Power Consumption

Power on: 10 W

Power off: 0.8 W

Operating Temperature

41°F (5°C) to 104°F (40°C)

Relative Humidity

30% to 80%

Dimensions

17-1/8" (W) \times 1-15/16" (H) \times 8-5/16" (D)

(435 mm \times 50 mm \times 211 mm)

Weight

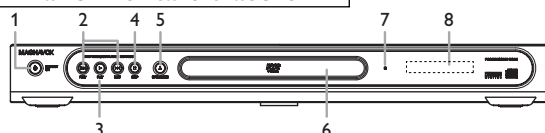
2.9 lbs (1.3 kg)

NOTE: Designs and specifications are subject to change without notice.

52 Español

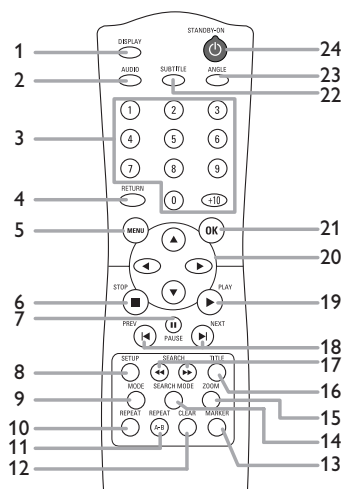
PERSPECTIVA GENERAL DE FUNCIONAMIENTO

Panel frontal / trasero

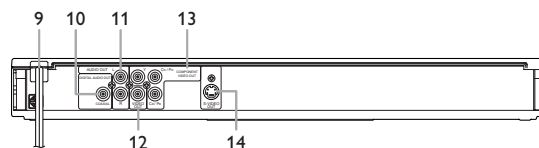


1. **Botón STANDBY-ON** Presiónelo para encender o apagar el reproductor de DVD.
2. **Botones PREV** **y NEXT** Presiónelos para ir a las Pistas o los Capítulos anteriores o siguientes. Manténgalos presionados por dos segundos para buscar hacia delante o hacia atrás.
3. **Botón PLAY** Presione este botón para reproducir un disco.
4. **Botón STOP** Presiónelo para detener la reproducción del disco.
5. **Botón OPEN/CLOSE** Presiónelo para abrir o cerrar la bandeja del disco.
6. **Bandeja del disco** Inserte un disco acá.
7. **Sensor Remoto (IR – infrarrojo)** Recibe una señal de su control remoto para que usted pueda manejar de lejos su reproductor de DVD.
8. **Visualización con Atenuador** Aquí aparecen mensajes acerca de las funciones actuales del reproductor de DVD. Ver Visualización de mensajes a continuación. Usted puede ajustar el brillo del visor.

Mando a distancia



1. **Botón DISPLAY** Púlselo para ver la información sobre el Disco en la pantalla de televisión durante la reproducción.
2. **Botón AUDIO** Púlselo para seleccionar uno de los idiomas de audio disponibles en un DVD o para seleccionar el modo de audio estéreo durante la reproducción de un CD de Audio o de un CD de Video.
3. **Botones numéricos** Púlselos para seleccionar una pista de reproducción. Utilícelo para establecer otras características cuando se soliciten números u horas.
4. **Botón RETURN** Púlselo para volver a un menú anterior o para hacer desaparecer menús o pantallas.
5. **Botón MENU** Púlselo para acceder al menú del Disco DVD.
6. **Botón STOP** Púlselo para detener la reproducción de un Disco.
7. **Botón PAUSE** Púlselo para pausar la reproducción de un Disco. Púlselo varias veces para avanzar el DVD o una imagen de un CD de Video paso a paso (o un marco cada vez).
8. **Botón SETUP** Cuando la reproducción de un Disco se encuentre parada, púlselo para acceder o eliminar el menú de Ajustes del Reproductor de DVD.



9. **Cable de conexión CA** Conéctelo a una salida de CA para suministrar energía al Reproductor de DVD.
10. **Toma COAXIAL DIGITAL AUDIO OUT** Conecte un cable coaxial de audio digital opcional aquí y a la toma Coaxial Digital Audio In de un equipo estéreo.
11. **Tomas AUDIO OUT (Left/Right)** Conecte el cable rojo y blanco suministrado aquí y a las tomas Audio In de un televisor, equipo estéreo o modulador RF. Conecte cables a sus respectivos colores en la toma.
12. **Toma VIDEO OUT** Conecte el cable de video amarillo suministrado aquí y a la toma Video de un televisor o modulador RF.
13. **Tomas Y Cr/Pr Cb/Pb COMPONENT VIDEO OUT** Conecte los cables de componente video opcionales aquí y a las tomas de Video In de un televisor.
14. **Toma S-VIDEO OUT** Conecte un cable S-Video opcional aquí y a la toma S-Video In de un televisor.

9. **Botón MODE** Cuando la reproducción se encuentre parada, púlselo para establecer una reproducción programada o aleatoria de un CD de Audio, MP3, o pistas JPEG. Púlselo para seleccionar Black Level o Virtual Surround.
10. **Botón REPEAT** Púlselo para repetir la reproducción del Disco, Pista, Grupo, Título o Capítulo actuales.
11. **Botón A-B REPEAT** Púlselo para seleccionar A-B Repeat Playback, función que reproduce repetidamente un segmento específico de un Disco.
12. **Botón CLEAR** Púlselo para borrar la información incorrecta cuando ajuste las características.
13. **Botón MARKER** Púlselo para ver los Marcadores, lo cuales proporcionan acceso rápido a puntos seleccionados de un Disco.
14. **Botón SEARCH MODE** Púlselo para acceder o salir del menú de Búsqueda, el cual le permite ir directamente a una Pista, Título, Capítulo u Hora específicos.
15. **Botón ZOOM** Púlselo para aumentar la imagen del DVD o del CD de Video o una imagen JPEG.
16. **Botón TITLE** Púlselo para mostrar un menú de título del DVD. Púlselo para volver a la parte superior de un Listado de Archivos MP3 o JPEG.
17. **Botones SEARCH** **y** Pulse SEARCH para buscar hacia atrás en un Disco. En un DVD, pulse PAUSE , después presione SEARCH para comenzar la reproducción en modo lento hacia atrás. Pulse SEARCH para avanzar en modo rápido en el Disco. En un DVD o CD de Video, pulse PAUSE , después presione SEARCH para comenzar la reproducción en modo lento.
18. **Botones NEXT** , **Prev** Púlselos para saltar Capítulos o Pistas.
19. **Botón PLAY** Púlselo para comenzar la reproducción de un Disco.
20. **Flechas** Púlselas para seleccionar los menús.
21. **Botón OK** Púlselo para seleccionar, cambiar o confirmar los menús.
22. **Botón SUBTITLE** Púlselo para seleccionar un idioma para los subtítulos (entre los disponibles) o para apagar los subtítulos.
23. **Botón ANGLE** Púlselo para visualizar la imagen del DVD desde un ángulo diferente (si se encuentra disponible la opción).
24. **Botón STANDBY-ON** Púlselo para encender o apagar el equipo. Aparecerá P-ON o P-OFF en el panel de visualización del DVD.

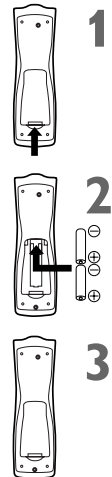
Espanol 53

PERSPECTIVA GENERAL DE FUNCIONAMIENTO

Recarga de Baterías

Cómo colocar las baterías en el control remoto

- 1** Retire la tapa del compartimiento de las baterías en la parte inferior del control remoto presionando la lengüeta y levantando la tapa.
- 2** Coloque dos baterías AA en el compartimiento de las baterías. Alinee los polos + y – como se indica.
- 3** Vuelva a colocar la tapa.



Cómo usar el control remoto

Apunte el control remoto en dirección al sensor remoto del Reproductor de DVD cuando use el control para hacer funcionar el Reproductor de DVD. No dirija el control hacia la TV. No coloque ningún objeto entre el control remoto y el Reproductor.

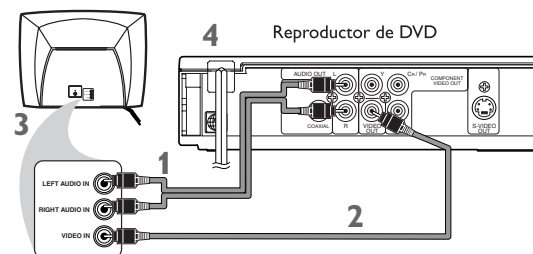
CONEXIONES

Antes de comenzar...

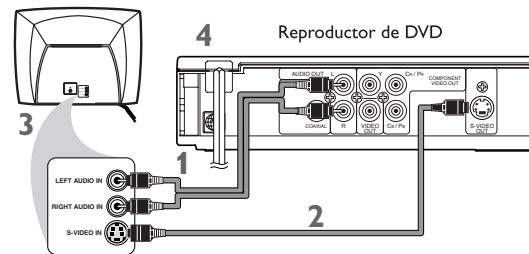
- Lea los manuales de su televisor o equipo estéreo. Tenga en cuenta el tipo de tomas y conectores del otro equipo. Decida qué canales de entrada de Audio y Video elegir para poder ver y escuchar el Reproductor en el televisor, equipo estéreo, etc.
- Desconecte todo el equipamiento de las tomas de corriente. Conecte el equipamiento a las tomas de corriente una vez que haya terminado de conectar todo. Nunca efectúe o cambia conexiones si el equipo se encuentra conectado a la toma de corriente.

Conexión a un televisor utilizando la toma VIDEO OUT o una toma S-VIDEO OUT

Trasera del televisor
(ejemplo)



Trasera del televisor
(ejemplo)



- 1** Conecte el cable de audio rojo y blanco suministrado a las tomas roja y blanca AUDIO OUT del Reproductor de DVD y a las tomas roja y blanca AUDIO IN del televisor. Introduzca cada cable en la toma de su color. La toma de la derecha es roja; la toma de la izquierda es blanca.
- 2** Conecte el cable de video amarillo suministrado o un cable S-Video (no incluido) a la toma VIDEO OUT o S-VIDEO OUT del Reproductor de DVD y a la toma VIDEO IN o S-VIDEO IN del televisor.
- 3** Conecte el cable de conexión del televisor a la toma de corriente. Encienda el televisor y seleccione el canal Audio/Video o S-VIDEO In. Este canal se encuentra normalmente cerca del canal cero o puede que el mando a distancia de su televisor tenga un botón o interruptor que le permita seleccionar el canal Video S-VIDEO In. En caso contrario, vaya al canal más bajo de su televisor (01 ó 02) y cambie de canal hacia abajo hasta que encuentre el canal Video o S-VIDEO In. Si no encuentra este canal, revise el manual de usuario de su televisor.
- 4** Conecte el cable de conexión del Reproductor de DVD a una toma de corriente. Pulse el botón **STANDBY-ON** para encender el Reproductor de DVD. Debería aparecer el logotipo DVD en la pantalla del televisor. Si no es así, compruebe las conexiones y asegúrese de haber seleccionado el canal Video o S-VIDEO In de su televisor correctamente. Asegúrese de que la exploración progresiva está en OFF y que el mensaje "PSCAN" no aparece en el panel de visualización del DVD.

54 Limited Warranty

MAGNAVOX LIMITED WARRANTY

Ninety (90) Days Free Product Exchange

MAGNAVOX warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE:

You must have proof of the date of purchase to exchange the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

Warranty coverage begins the day you buy the product. For a period of ninety (90) days from the date of purchase, if the product is determined to be defective, Magnavox will exchange the defective product with a new or renewed product, at its option, at no charge. The replacement product is covered only for the warranty period of the original product. When the warranty on the original product expires, the warranty on all replaced products also expires. When it is necessary for you to ship the product to Magnavox for exchange, you will pay the shipping cost for shipment to Magnavox. Magnavox will pay the shipping costs when returning a product to you.

Note: The exchange model supplied will be the most comparable one in Magnavox current inventory. Shipping of your product to Magnavox implies intent to follow the specified requirements of the warranty and exchange program. Product received by Magnavox cannot be returned. Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay of exchange process.

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost associated with packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product sold AS IS or RENEWED.

WHERE WARRANTY EXCHANGE IS AVAILABLE:

Exchange is available in all countries where Magnavox officially distributes the product. In countries where Magnavox does not distribute the product, the local Magnavox organization will attempt to exchange the product, although there may be a delay if the appropriate product is not readily available or special customs processes are implied.

FOR EXCHANGE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Magnavox Customer Care Center at:
1-800-705-2000

FOR EXCHANGE IN CANADA...

1-800-661-6162 (French Speaking)
1-800-705-2000 (English or Spanish Speaking)

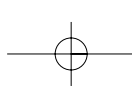
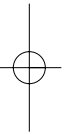
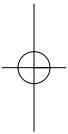
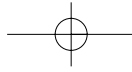
REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. MAGNAVOX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the MAGNAVOX partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Magnavox, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 27750)



56 Index

- a-b repeat27
- a-b repeat button17, 27
- ac power cord20
- angle button18, 35
- arrow buttons17
- audio button18, 33
- audio cd7
- audio out jacks10-14, 20

- batteries8
- bit rate36
- black level37

- camera angle34
- chapters26
- clear button17
- coaxial digital
 - audio out jack15, 20
- color systems7
- component video
 - out jacks13, 20
- connections9-15
- contents, table of5

- disc menus21
- disc tray16, 19
- display button17, 35-36
- display controls40-41
- displays35-36
- dual playback31
- dvd video7

- folder playback31
- front panel19

- glossary49
- group27, 30-31, 36

- helpful hints50
- hookups
 - component video13
 - rf modulator10
 - s-video12
 - stereo14-15
 - tv10-15
- initializing48
- jpeg30-31, 36
- language controls37-39, 48-56
- maintenance49
- marker button17, 33
- markers33
- menu button18, 21
- menus6, 21
- mode button18, 28, 37
- mp330-31, 36
- next ► button18, 25
- number buttons18, 25
- ok button18
- open/close ▲ button16, 19
- parental44-45
- password45
- pause ■■ button17, 22, 24
- play ► button16, 18, 19
- playback control7, 21
- playing16
- power cord20
- prev ◀ button18, 25
- program28
- progressive scan9, 13, 44
- random29
- rear panel20
- region codes7
- remote control
 - buttons17-18
 - sensor19
 - using8
- repeat button17, 27
- repeat playback27
- resume on22
- return button17
- safety precautions3
- search ►►, ◀◀ buttons17, 23
- search mode button17, 25-26
- searching23
- setup button18
- slow motion24
- specifications51
- standby-on ⏻ button17, 19
- step-by-step playback22
- stereo sound32
- still mode40-41
- still picture22
- stop button18-19
- subtitle button17, 34
- s-video out jack12, 20
- table of contents5
- time search26
- title button18, 21
- title menu21
- titles21, 26
- tracks25
- video cd7
- video out jack10-11, 14-15, 20
- virtual surround37
- warranty54
- “x”6
- zoom button18, 24

